

Answers to Semester 1 Review

1) $\{0\}$

2) $\{7\}$

3) $\{16\}$

4) $\{12\}$

5) $\{18\}$

6) $\{-80\}$

7) $\{-6\}$

8) $\{-6\}$

9) $\{0\}$

10) $\{11\}$

11) $\{-3\}$

12) $\left\{\frac{5}{2}\right\}$

13) $\left\{-\frac{2}{3}\right\}$

14) $\{8, -8\}$

15) $\{4, -4\}$

16) $\left\{-4, \frac{50}{9}\right\}$

17) $\{4, -4\}$

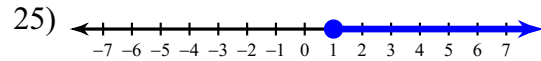
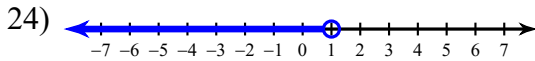
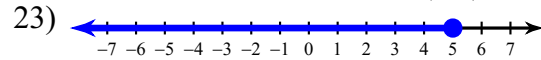
18) $\{4, -4\}$

19) $\{4\}$

20) $\left\{\frac{73}{3}\right\}$

21) $\{42\}$

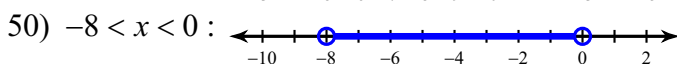
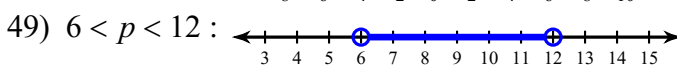
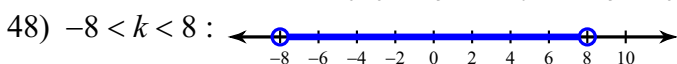
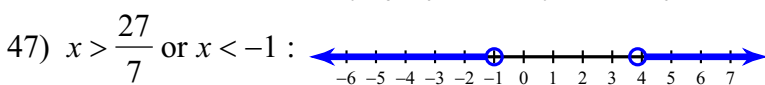
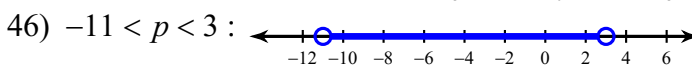
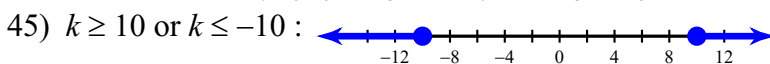
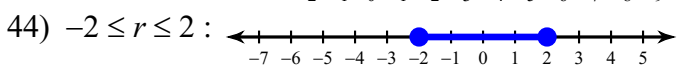
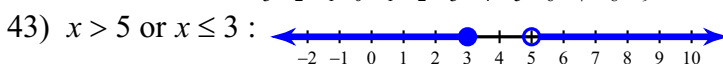
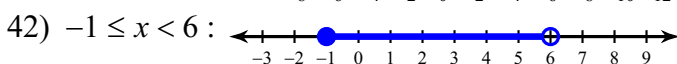
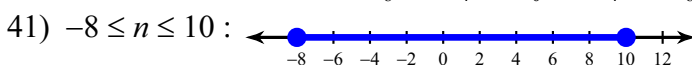
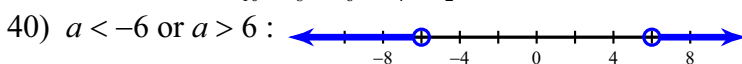
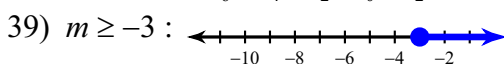
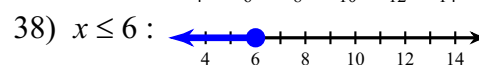
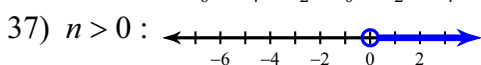
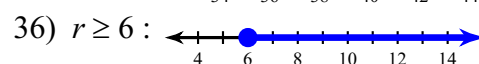
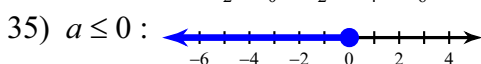
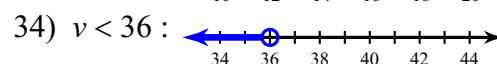
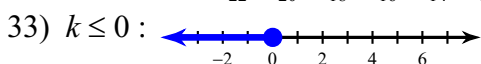
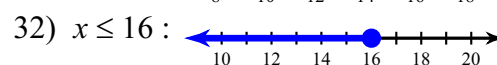
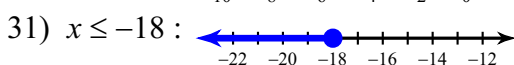
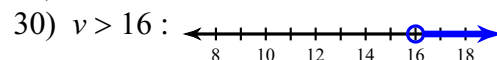
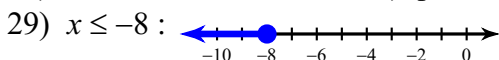
22) $\{-8\}$



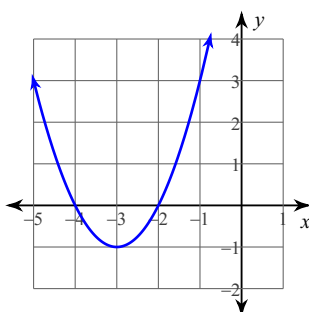
26) $x < 1$

27) $p \geq -5$

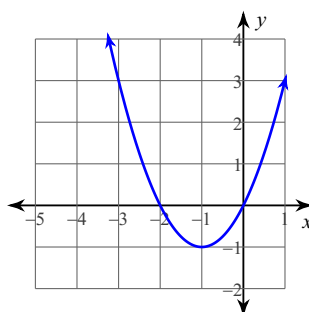
28) $a < 5$



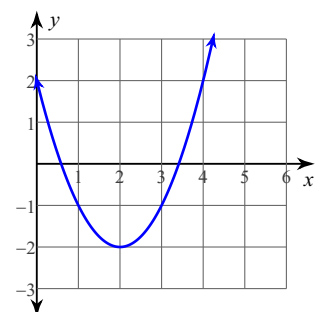
51)



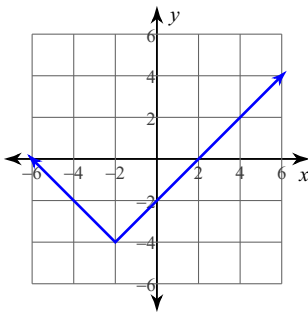
52)



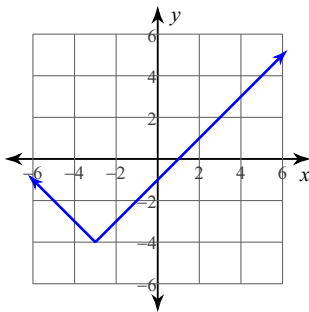
53)



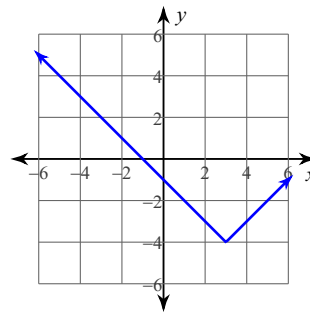
54)



55)



56)



57) $\frac{1}{5}$

58) $-\frac{1}{5}$

59) 1

60) $-\frac{2}{17}$

61) $\frac{12}{23}$

62) $\frac{7}{18}$

63) -8

64) $-\frac{2}{3}$

65) $-\frac{9}{2}$

66) 0

67) 2

68) $-\frac{7}{2}$

69) 0

70) 3

71) Undefined

72) $\frac{4}{3}$

73) $y = \frac{1}{4}x - 3$

74) $y = -x - 2$

75) $y = 2x + 1$

76) $y = -2x - 5$

77) $y = -3x - 4$

78) $y = -3x + 3$

79) $y = -\frac{2}{3}x - 5$

80) $y = 2x - 6$

81) $y = \frac{7}{2}x + \frac{29}{2}$

82) $y = -5x$

83) $y = \frac{3}{2}x + 5$

84) $x = 1$

85) (-4, 1)

86) (2, 4)

87) (-4, -2)

88) (3, 1)

89) (2, -6)

90) (0, -3)

91) (-2, 6)

92) (1, 7)

93) (-1, -8)

94) No solution

95) 11 and 14

96) Boat: 12 km/h, Current: 10 km/h

97) small box of tangerines: \$8, large box of tangerines: \$20

98) rose bush: \$5, geranium: \$9 99) senior citizen ticket: \$6, student ticket: \$8

100) Van: 10, Bus: 51

101) boat: 16 mph, current: 7 mph

102) 26

103) $\frac{6}{y^5x^3}$

104) $4a^{10}b^4$

105) $12x^2y^3$

106) $\frac{1}{3x^4y^4}$

107) $8m^6n^9$

108) $\frac{256a^{12}}{b^{12}}$

109) $4x^2y$

110) $\frac{2y}{x}$

111) $\frac{a^2}{2b^3}$

112) $\frac{z^2}{2x^3y}$

113) $\frac{1}{x^{12}y^4}$

114) $\frac{p^{12}q^9}{8r^9}$

115) sixth degree trinomial

116) cubic monomial

117) sixth degree polynomial with four terms

118) $3a^3 + a$

119) $6n^4 + 9n^3$

120) $n^3 - 4n^2$

121) $-7b^5 + 4b^3 - 8b - 26$

122) $20x^5 + 3x^4 + 7x^2 - 7$

123) $4x^4 + 15x^3 - 3x^2 + 1$

124) $8x^4y - 27x^2y^2 + 2x^4$

125) $-10x^3y^2 - 6x^4 - 5xy$

126) $3x^3y^3 + 2xy^3 + 27y^2$

127) $6x^2 - 24x$

128) $42x^4 - 30x^3 - 48x^2$

129) $10v^2 + 30v + 20$

130) $25r^2 + 40r + 15$

131) $20v^3 - 33v^2 + 11v - 1$

132) $15k^3 + 13k^2 - k - 2$

133) $16m^4 + 52m^3 + 56m^2 + 17m - 5$

134) $v^2 - 16$

135) $b^2 - 1$

136) $k^2 - 4$

137) $4a^2 + 8a + 4$

138) $49v^4 - 42v^2 + 9$

139) $9n^4 - 64$

140) $9m^2 - 4n^4$

141) $9u^2 + 18uv^2 + 9v^4$

142) $a^2 - 12ab + 36b^2$