



5-100. See below.

a. 29°

b. $\cos 29^\circ = \frac{y}{42}, y \approx 36.73$

5-101. See below.

a. $(-1, -2)$

b. $(4, -4)$

c. $(3, 4)$

5-102. $\tan^{-1}\left(\frac{3}{4}\right) \approx 36.87^\circ$

5-103. $\sin^{-1}\frac{7}{8} \approx 61.0^\circ$

5-104. See below.

a. $2x^2 + 6x$

b. $3x^2 - 7x - 6$

c. $x = 1$ or 7

d. $y = -3$ or 5

5-105. See below.

a. $\frac{1}{12}$

b. $\frac{1}{3}$