

12.3-12.6 Review Answers

ANSWERS

1. a) $(x, y) = (4, -2) + t(-4/3, 3)$
b) $x = 4 - (4/3)t$ $y = -2 + 3t$
2. $t = 5, -2$ therefore the points are $(9, 43)$ and $(-5, -13)$
3. a) -18
b) $\sqrt{34}$
c) $\sqrt{2}$
d) $(6, -2)$ for example
e) $(3, 5)$ for example
f) 167°
4. a) $(-0.5, 2.5, 2.5)$
b) $\sqrt{43}$
c) $(x, y, z) = (1, 4, 0) + t(-3, -3, 5)$
d) $\sqrt{43}$
5. x: $(14/3, 0, 0)$
y: $(0, -2, 0)$
z: $(0, 0, -14)$
6. $x + 5y - 2z = 32$