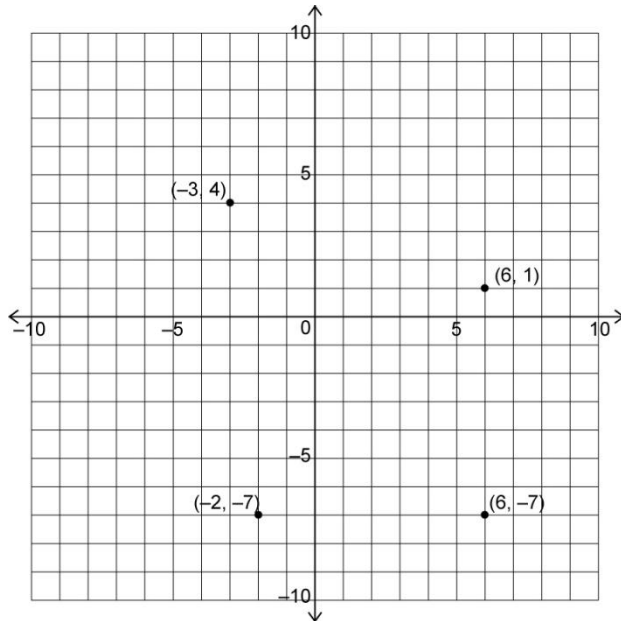


Lesson 4: Slope

Are You Ready? Possible Solutions

1. a. The student's graph should look like the following.



- b. The following are the correct answers.

Point	Quadrant
$(-3, 4)$	2
$(6, -7)$	4
$(6, 1)$	1
$(-2, -7)$	3

- c. i. $(-2, -7)$ and $(6, -7)$
ii. $(6, 1)$ and $(6, -7)$
iii. Answers may vary. One possibility is $(-3, 4)$ and $(6, 1)$.

2. a. $\tan x = \frac{5}{12}$

b. $\tan x = \frac{21}{20}$

$$3. \quad \text{a.} \quad \frac{15 \div 5}{20 \div 5} = \frac{3}{4}$$

$$\text{b.} \quad -\frac{24 \div 12}{36 \div 12} = -\frac{2}{3}$$

$$\text{c.} \quad \frac{39 \div 13}{26 \div 13} = \frac{3}{2}$$

$$4. \quad \text{a.} \quad V = 10 \times 5 \times 2 \\ = 100$$

$$\text{b.} \quad A = \frac{b \times h}{2} \\ = \frac{6 \times 3}{2} \\ = \frac{18}{2} \\ = 9$$

$$\text{c.} \quad c = \sqrt{a^2 + b^2} \\ = \sqrt{8^2 + 15^2} \\ = \sqrt{64 + 225} \\ = \sqrt{289} \\ = 17$$