

$$\text{leg}^2 = \text{adj. part} \cdot (\text{whole})$$

$$6^2 = x(x+5)$$

$$36 = x^2 + 5x$$

$$0 = x^2 + 5x - 36$$

$$0 = (x+9)(x-4)$$

$$x = -9 \text{ or } \textcircled{4}$$

length

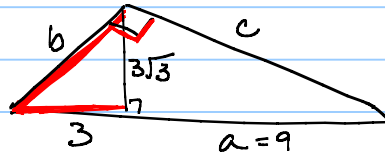
$$\text{alt}^2 = \text{part} \cdot \text{part}$$

$$h^2 = 5x$$

$$h^2 = 4 \cdot 5$$

$$h = 2\sqrt{5}$$

⑤ a Find a



$$\text{alt}^2 = \text{part} \cdot \text{part}$$

$$(3\sqrt{3})^2 = 3a$$

$$\frac{9 \cdot 3}{3} = a$$

$$\frac{9(3)}{3} = a$$

$$\frac{27}{3} = a$$

$$9 = a$$

b. Find b

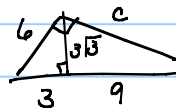
$$\text{leg}^2 = \text{adj. part} \cdot \text{whole}$$

$$b^2 = 3(12)$$

$$b = 6$$

$$\text{then } a \cdot b = 9 \cdot 6 = \textcircled{54}$$

c Find c



$$c^2 = 9(12)$$

$$c = 3 \cdot 2\sqrt{3} = 6\sqrt{3}$$

$$\text{Find } a + b + c = 9 + 6 + 6\sqrt{3} = \textcircled{15 + 6\sqrt{3}}$$

Add or Subtract sq rt

$$\underline{0\sqrt{3} + 3\sqrt{3} + 2\sqrt{5}}$$

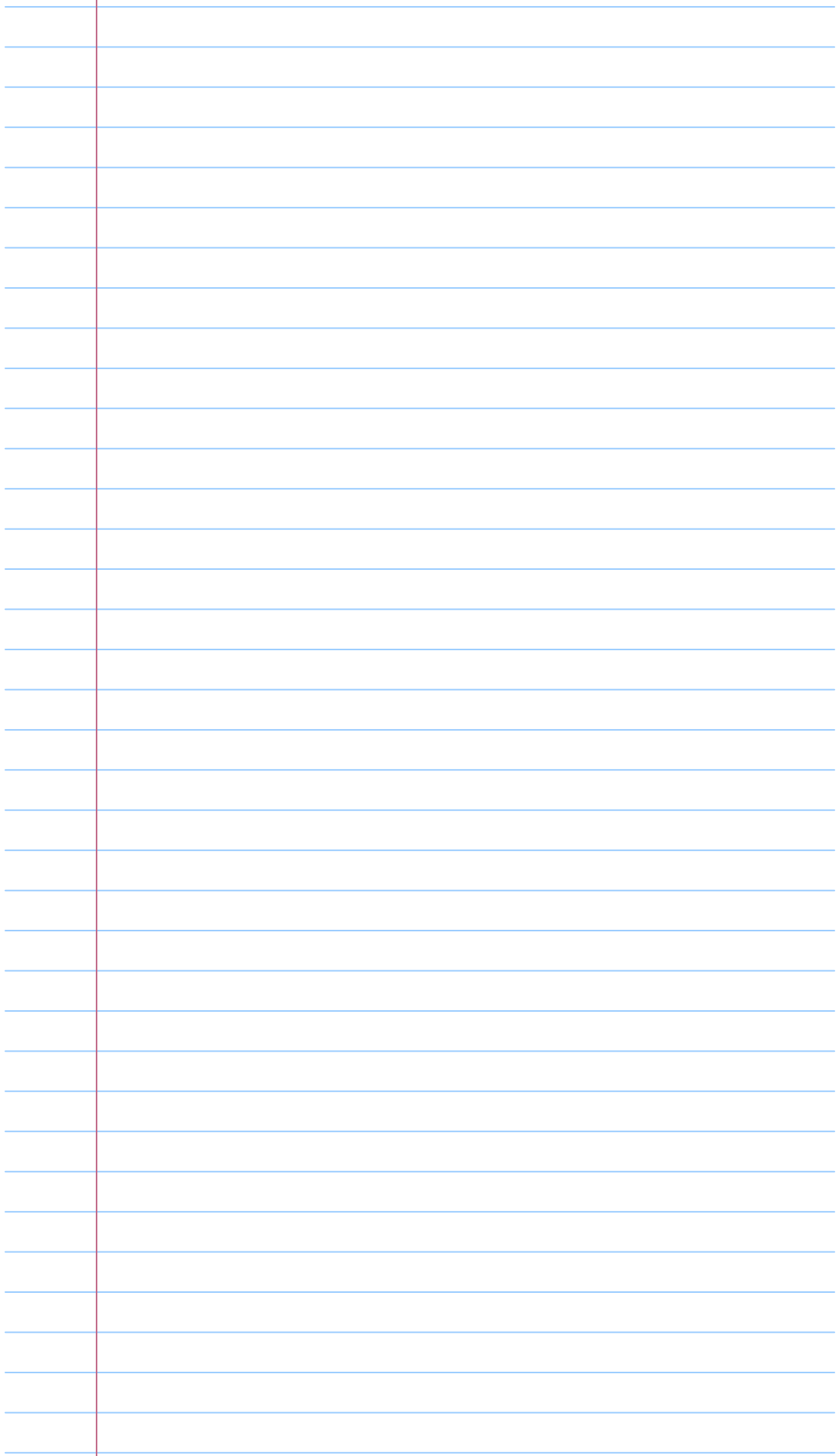
$$5\sqrt{3} + 2\sqrt{5}$$

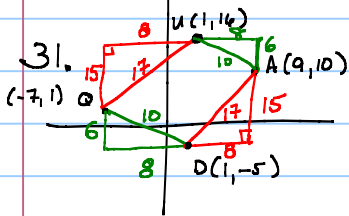
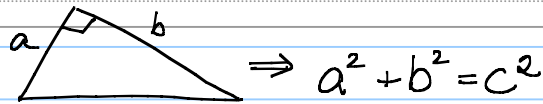
$$(\underline{2\sqrt{3}})(\underline{3\sqrt{3}})(\underline{2\sqrt{5}})$$

$$2 \cdot 3 \cdot 2 \cdot \sqrt{3 \cdot 3 \cdot 5}$$

$$\underline{12 \cdot 3 \sqrt{5}}$$

$$36\sqrt{5}$$





$$8^2 + 15^2 = ?^2$$

$$64 + 225 = ?^2$$

$$289 = ?^2$$

$$17^2 = ?$$

slope  $UQ = \frac{15}{8}$   
 slope  $QD = \frac{6}{8} = \frac{3}{4}$  } not  $\perp$

$$6^2 + 8^2 = UA^2$$

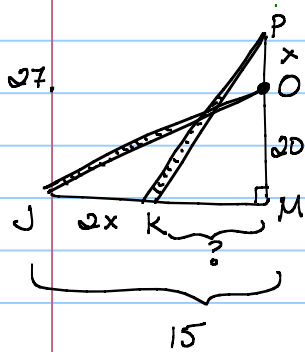
$$36 + 64 = UA^2$$

$$100 = UA^2$$

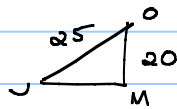
$$10 = UA$$

a) Not  $\perp$ s but opp sides  $\cong \rightarrow \square$

b) perimeter =  
 $2(17+10) = 54$



$OJ = 25 \text{ ft}$



$(20 - 25)$

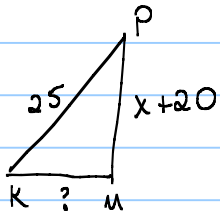
$5(4, \_, 5)$

$4^2 + a^2 = 5^2$

$a^2 = 25 - 16$

$5 \quad a = 3$

$JM = 15$



$KM^2 + (x+20)^2 = 25^2$

$KM^2 + x^2 + 40x + 400 = 625$

$KM^2 = 225 - 40x - x^2$