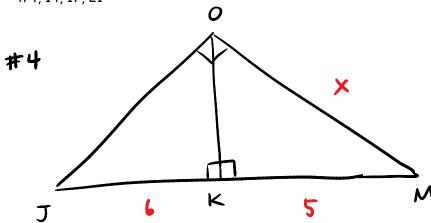
pgs. 380 - 382 #4, 14, 17, 21



a.
$$x^{2} = 12.5$$

 $x = \sqrt{60}$
 $x = \sqrt{4.15}$
 $x = 2\sqrt{15}$
 $0K = 2\sqrt{15}$

b.
$$(3\sqrt{5})^2 = 9 \cdot x$$

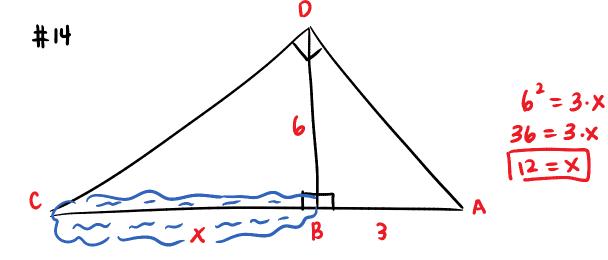
 $9 \cdot 5 = 9x$
 $5 = x$
 $KM = 5$

c.
$$(3\sqrt{2})^2 = 3 \cdot x$$

 $9 \cdot 2 = 3 \cdot x$
 $18 = 3 \times 6 = x$
 $5 \times 7 \times 10^{-2}$

d.
$$x^2 = 5.11$$

 $x^2 = 55$
 $x = \sqrt{55}$



a.
$$x^2 = 7.4$$

 $x = 2.7$

b.
$$8^2 = 6(x-6)$$

 $64 = 6x-36$
 $100 = 6x$
 $x = 16^2/3$

c.
$$x^2 = 8.12$$

$$\sqrt{x^2} = 96$$

$$x = \sqrt{16.6}$$

$$x = 4\sqrt{6}$$

d.
$$7^2 = x \cdot 12$$

 $49 = 12 \times$
 $\frac{49}{12} = \times$ $12 - \frac{49}{12} = \boxed{7 \cdot \frac{11}{12}}$

#21 Given:
$$\overrightarrow{AD} \perp \overrightarrow{CD}$$

BD $\perp \overrightarrow{AC}$

BC = 5 AD = 6

Find: BD

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

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

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

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

$$x = -9, 4$$

$$y^{2} = 4.5$$
 $y^{2} = 20$
 $y = 2\sqrt{5}$