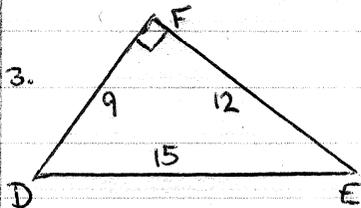


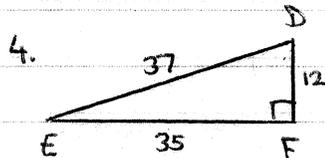
Geometry Ch 7-6 Exer, pg 471 #3-5, 7-15

Find $\sin D$ and $\sin E$. Write each answer as a fraction and as a decimal, rounding to 4 places as necessary.



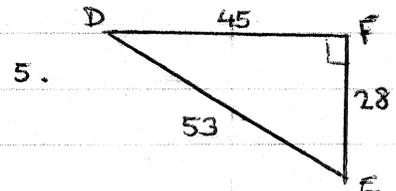
$$\sin D = \frac{12}{15} = 0.8000$$

$$\sin E = \frac{9}{15} = 0.6000$$



$$\sin D = \frac{12}{37} = 0.3243$$

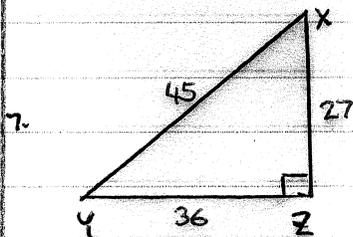
$$\sin E = \frac{35}{37} = 0.9459$$



$$\sin D = \frac{28}{53} = 0.5283$$

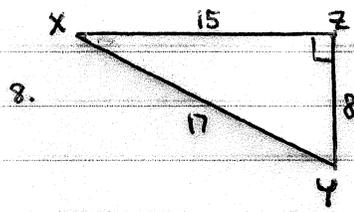
$$\sin E = \frac{45}{53} = 0.8491$$

Find $\cos X$ and $\cos Y$. Write each answer as a fraction and as a decimal, rounding to 4 places as necessary.



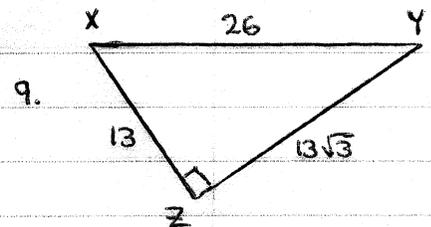
$$\cos X = \frac{27}{45} = 0.6000$$

$$\cos Y = \frac{36}{45} = 0.8000$$



$$\cos X = \frac{15}{17} = 0.8824$$

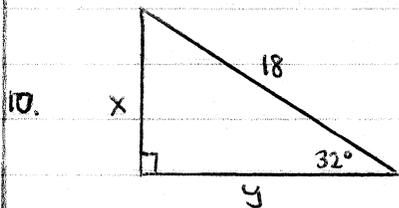
$$\cos Y = \frac{8}{17} = 0.4706$$



$$\cos X = \frac{13}{26} = 0.5000$$

$$\cos Y = \frac{13\sqrt{3}}{26} = 0.8660$$

Use a sine or cosine ratio to find the value of each variable. Round decimals to the nearest tenth.

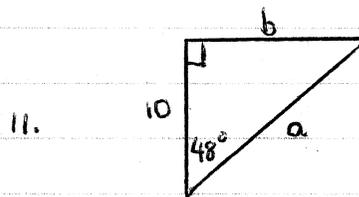


$$\frac{x}{18} = \sin 32^\circ \quad \frac{y}{18} = \cos 32^\circ$$

$$x = 18 \sin 32^\circ \quad y = 18 \cos 32^\circ$$

$$x = 18(.5249) \quad y = 18(.8480)$$

$$x = 9.5 \quad y = 15.3$$

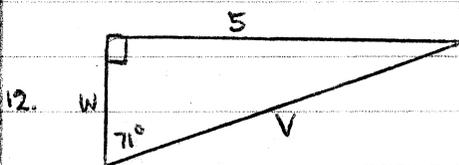


$$\cos 48^\circ = \frac{10}{a} \quad \sin 48^\circ = \frac{b}{a}$$

$$a = \frac{10}{\cos 48^\circ} \quad \sin 48^\circ = \frac{b}{14.9}$$

$$a = \frac{10}{(.6691)} \quad 14.9 \sin 48^\circ = b$$

$$a = 14.9 \quad 11.1 = b$$



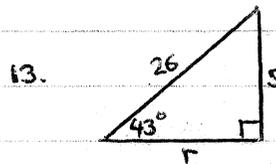
$$\sin 71^\circ = \frac{w}{5} \quad \cos 71^\circ = \frac{v}{5}$$

$$w = \frac{5}{\sin 71^\circ} \quad \cos 71^\circ = \frac{w}{5.3}$$

$$w = \frac{5}{(.9455)} \quad 5.3 \cos 71^\circ = w$$

$$w = 5.3 \quad 5.3(.3256) = w$$

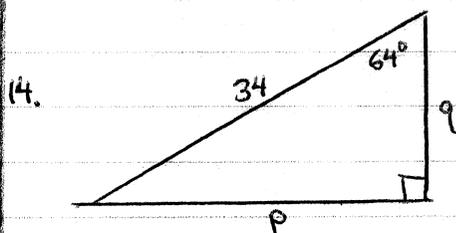
$$1.7 = w$$



$$\frac{r}{26} = \cos 43^\circ \quad \frac{s}{26} = \sin 43^\circ$$

$$r = 26 \cos 43^\circ \quad s = 26 \sin 43^\circ$$

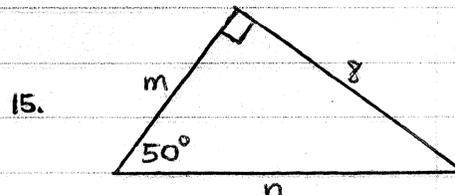
$$r = 19.0 \quad s = 17.7$$



$$\frac{p}{34} = \sin 64^\circ \quad \frac{q}{34} = \cos 64^\circ$$

$$p = 34 \sin 64^\circ \quad q = 34 \cos 64^\circ$$

$$p = 30.6 \quad q = 14.9$$



$$\sin 50^\circ = \frac{m}{8} \quad \cos 50^\circ = \frac{m}{n}$$

$$n = \frac{8}{\sin 50^\circ} \quad \cos 50^\circ = \frac{m}{10.4}$$

$$10.4 \cos 50^\circ = m$$

$$n = 10.4 \quad 6.7 = m$$