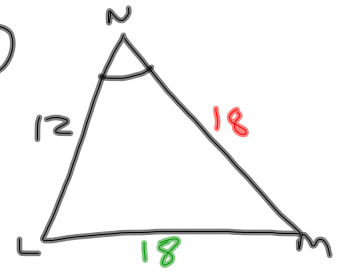
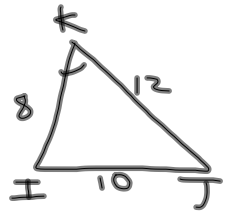
1-15-14

5th Geo

SOL Questions 7-4

(1)





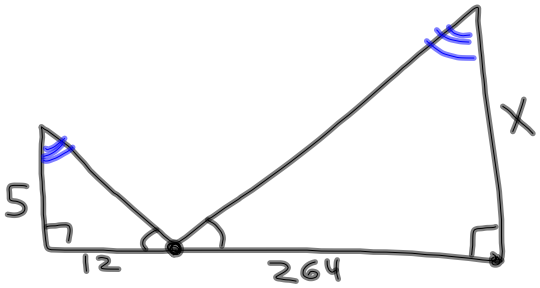
(F) $\frac{12}{8} = \frac{18}{12}$?

$144 = 144$ ✓

(G) $\frac{12}{8} = \frac{18}{10}$?

$120 = 144$ X

(8)

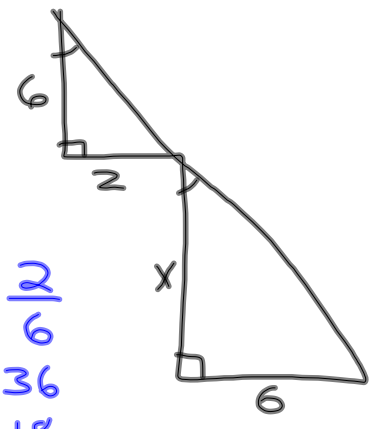


$\frac{5}{X} = \frac{12}{264}$

$\frac{12X}{12} = \frac{1320}{12}$

$X = 110$

(12)

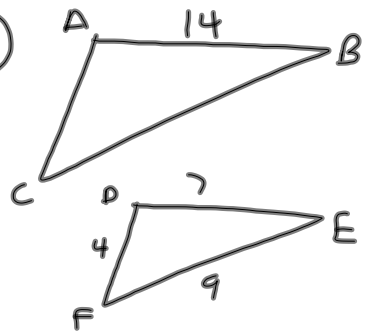


$\frac{6}{X} = \frac{2}{6}$

$2X = 36$

$X = 18$

(11)



$\triangle ABC \sim \triangle DEF$ what do you need

$\frac{14}{7}$ is what I notice

$\downarrow$

$\frac{2}{1}$

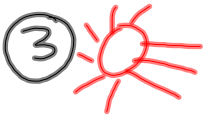
X (A) $\frac{BC}{AC} = \frac{1}{2}$

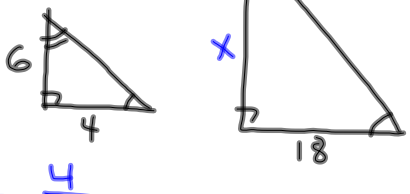
X (B) $\frac{BC}{AC} = \frac{9}{4}$

X (C) $AC = 18$ $BC = 8$

✓ (D) $AC = 8$ $BC = 18$

(3)





$\frac{6}{x} = \frac{4}{18}$

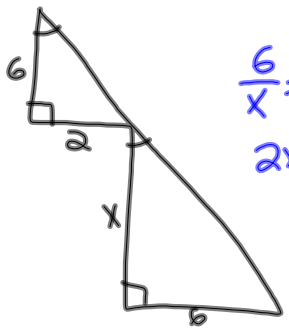
$4x = 108$

$x = 27$

1-15-14

6th Geo

(12)

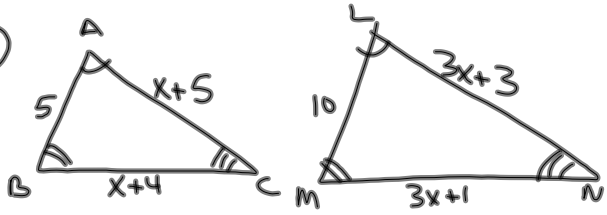


$\frac{6}{x} = \frac{2}{6}$

$2x = 36$

$x = 18$

(5)



$\frac{5}{10} = \frac{x+5}{3x+3}$

$10(x+5) = 5(3x+3)$

$10x + 50 = 15x + 15$

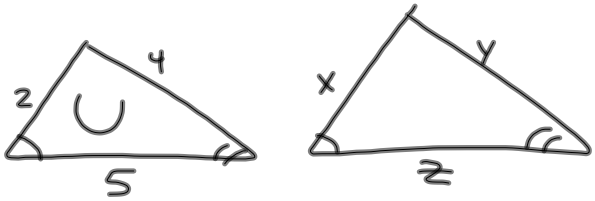
$35 = 5x$

$7 = x$ ∴ $AC = x+5$

$= 7+5$

$= 12$

(4) Ratio of perimeter of $\triangle U$ to $\triangle V$ is 1:2



If $\triangle$ are similar, what is value of $x+y$?

$\frac{1}{2} = \frac{2}{x}$ $\quad$ $\frac{1}{2} = \frac{4}{y}$

$x = 4$ $\quad$ $y = 8$

(12)