Hwk #6

Sec 7-2

Pages 375-376

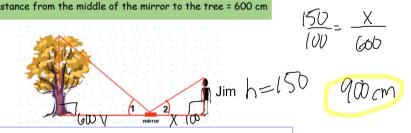
Problems 7, 8, 11, 13, 14, 18, 22, 23, 27

Due Thursday

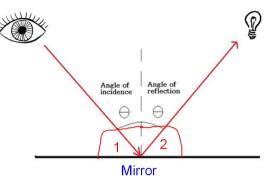
Jim looks at the mirror on the ground and sees the top of the tree.

Why are the two triangles similar? A

Height from the ground to Jim's eyes = 150 cm Distance from the middle of the mirror to Jim = 100 cm Distance from the middle of the mirror to the tree = 600 cm



Angle of Incidence = Angle of Reflection



How are angles 1 and 2 related? They are congruent

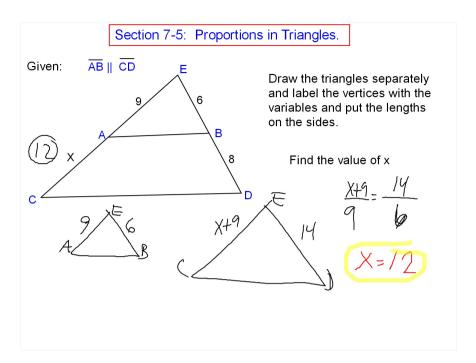
Hwk #7

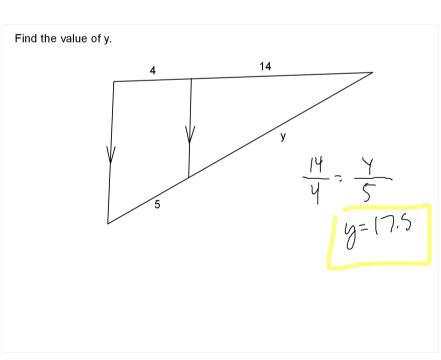
Sec 7-3

Pages 385-386

Problems 1, 2, 4, 5, 17-19

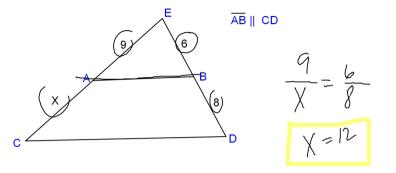
Due Friday

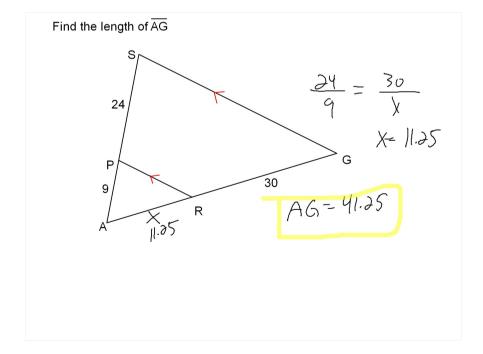


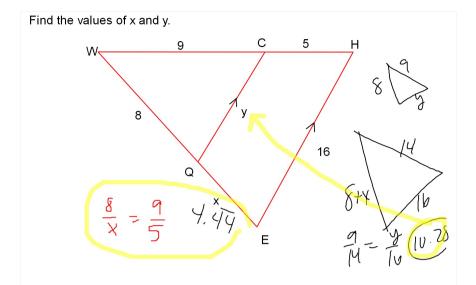


Side-Splitter Theorem

If a line is parallel to one side of a triangle and intersects the other two sides, then it divides those sides proportionally.



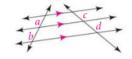




Corollary

Corollary to Theorem 7-4

If three parallel lines intersect two transversals, then the segments intercepted on the transversals are proportional.



$$\frac{a}{b} = \frac{c}{d}$$