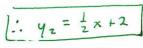
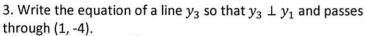
# Climb the Ladder

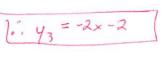
1. Write the equation of a line  $y_2$  so that  $y_2 \parallel y_1$  and passes through (-2, 1).

$$M = \frac{1}{2}$$
 $Y_2 = \frac{1}{2} \times +b$ 
 $I = \frac{1}{2}(-2) +b$ 
 $I = -1 +b$ 



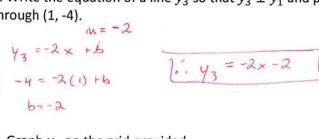
2. Graph  $y_2$  on the grid provided.





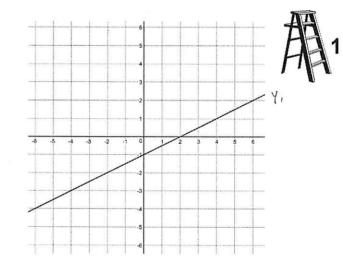
4. Graph  $y_3$  on the grid provided.

5. Check for perpendicularity by measuring angles where  $y_1$  and  $y_3$  intersect.



# Climb the Ladder

1. Write the equation of a line  $y_2$  so that  $y_2 \parallel y_1$  and passes through (-2, 1).



2. Graph  $y_2$  on the grid provided.

3. Write the equation of a line  $y_3$  so that  $y_3 \perp y_1$  and passes through (1, -4).

4. Graph  $y_3$  on the grid provided.

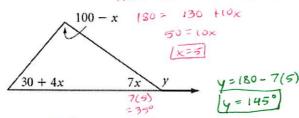
5. Check for perpendicularity by measuring angles where  $y_{\mathrm{1}}$  and  $y_{\mathrm{3}}$  intersect.

## **Climb the Ladder**

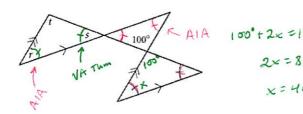
Key

Solve for the missing variables in each problem.

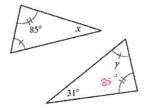
1. 
$$y = 145^{\circ}$$



3. 
$$r = 40^{\circ}, s = 40^{\circ},$$
  
 $t = 100^{\circ}$ 



2. 
$$x = 31^{\circ}$$
,  $y = 64^{\circ}$ 



$$31^{\circ} + 85^{\circ} + y^{\circ} = 180^{\circ}$$

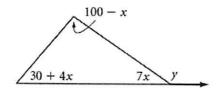
$$116^{\circ} + y = 180^{\circ}$$

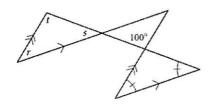
$$14 = 64^{\circ}$$

$$x + 64^{\circ} + 85^{\circ} = 180^{\circ}$$
  
 $x + 149^{\circ} = 180^{\circ}$   
 $x = 31^{\circ}$ 

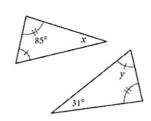
## Climb the Ladder

Solve for the missing variables in each problem.





2. 
$$x = _{---}, y = _{---}$$





#### Climb the Ladder



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Find the angle measures.

#### Climb the Ladder

Find the angle measures.

a.

b.

c.

d.

e.

f.

g.

h.

