Lesson 73 • Formulas for Sequences

Power Up

- ***Facts***
- ***Mental Math***
- ***Problem Solving***

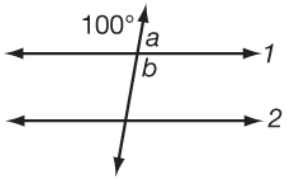
New Concepts

- ***Examples***
- ***Practice Set***

Written Practice

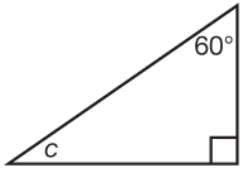
Facts Find the measure of the angle indicated by the letters.

parallel lines 1 and 2

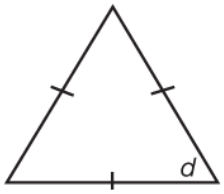


m∠*a* = 80°

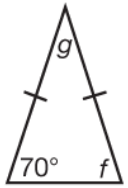
m∠*b* = 100°



m∠*c* = 30°



m∠*d* = 60°



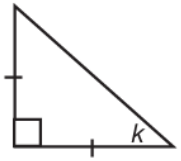
m∠*f* = 70°

m∠*g* = 40°

parallelogram

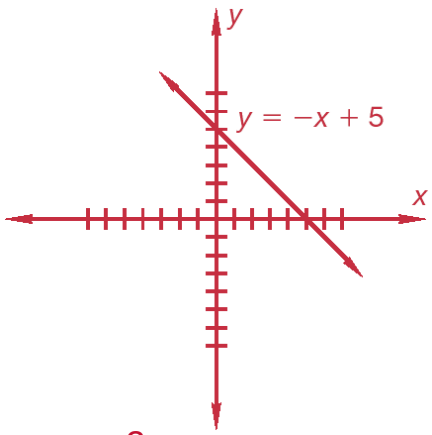
m∠*h* = 60°

m∠*j* = 120°



m∠*k* = 45°

Written Practice

1. 44%
2. 125
3. $14.40
4. Yes, $\frac{D}{W} = 5$
5. 8 in.
6. $\frac{6\ \cancel{yd}}{3\ sec} \cdot \frac{3\ ft}{1\ \cancel{yd}} = 6$ ft/sec
7. $\frac{440\ \cancel{ft}}{1\ \cancel{min}} \cdot \frac{60\ \cancel{min}}{1\ hr} \cdot \frac{1\ mi}{5280\ \cancel{ft}} = 5$ mi/hr
8. 

9. 60 m^2
10. a. $0.08\overline{3}$
    b. $8\frac{1}{3}\%$
    c. B
11. a. $4(x^2 + 3x - 1)$
    b. $-2(x + 8)$

Written Practice *continued*

12. 26 in.; 32 in.^{2}
13. 36 in.; 30 cm^2
14. D
15. B
16. $\frac{4m^7}{3b^4}$
17. −8
18. $x = 1$
19. $x = \frac{1}{2}$
20. $x = \frac{9}{2}$
21. $x = 16$
22. $x = 20$
23. $x = 8$
24. 37
25. Sample: The graph is showing that it costs money to get into an amusement park and then costs additional money for each ride. It is not a proportion. We could make the situation proportional by eliminating the park's entrance fee and charging the same price for every ride.