

# 7-5

## Practice

Form G

### Proportions in Triangles

Use the figure at the right to complete each proportion.

1.  $\frac{a}{c} = \frac{\square}{f}$

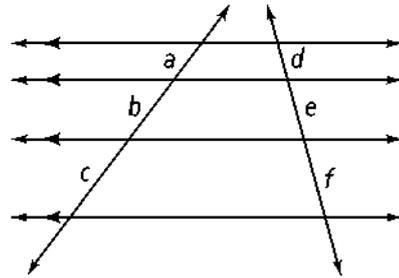
2.  $\frac{f}{e} = \frac{c}{\square}$

3.  $\frac{\square}{c} = \frac{e}{f}$

4.  $\frac{a}{\square} = \frac{b}{e}$

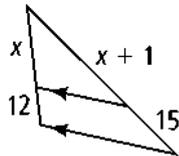
5.  $\frac{a}{b} = \frac{\square}{e}$

6.  $\frac{e}{\square} = \frac{f}{c}$

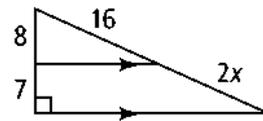


Algebra Solve for x.

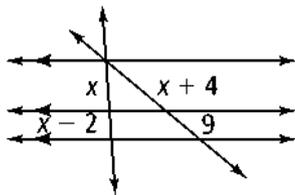
8.



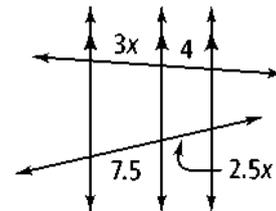
9.



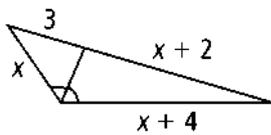
11.



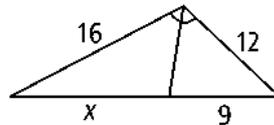
12.



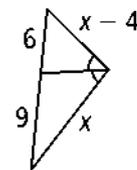
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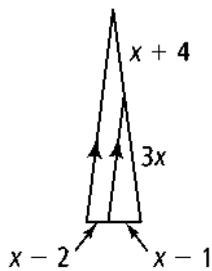
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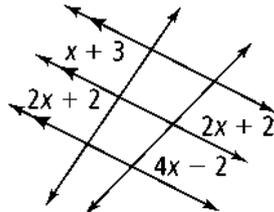
15.



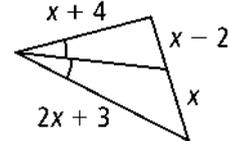
16.



17.



18.

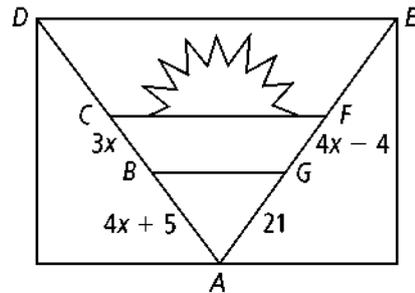


Proportions in Triangles

7-5

23. The flag of Antigua and Barbuda is like the image at the right. In the image,  $\overline{DF} \parallel \overline{CF} \parallel \overline{BG}$ .

- a. An artist has made a sketch of the flag for a mural. The measures indicate the length of the lines in feet. What is the value of  $x$ ?
- b. What type of triangle is  $\triangle ACF$ ? Explain.



c. Given:  $\overline{DF} \parallel \overline{CF} \parallel \overline{BG}$

Prove:  $\triangle ABG \sim \triangle ACF \sim \triangle ADE$