3-2 Skills Practice

Angles and Parallel Lines

USING ALGEBRA Find the value of x.

1.

70°
$(3x - 14)°$

2.

$(2x + 10)°$

3.

$(12x - 9)°$
135°

4.

$(5x - 24)°$
89°

5.

$(13x - 5)°$
94°

6.

126°
$7(x - 7)°$

Find x and y in each figure.

7.

$5x°$
40°
$(3y - 1)°$

8.

$(8x - 10)°$
$(6y + 20)°$ $7x°$
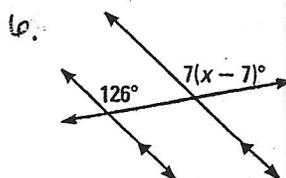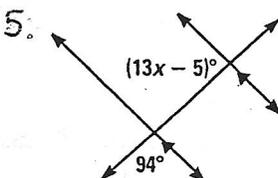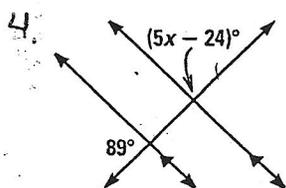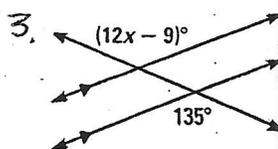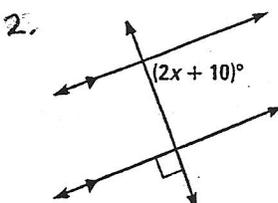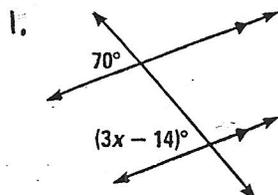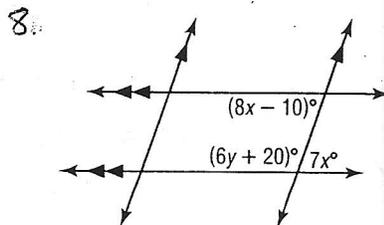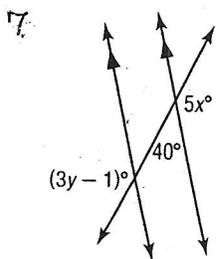
Find $m\angle 1$ in each figure.

9.

60°
1
20°

10.

140°
1
32°
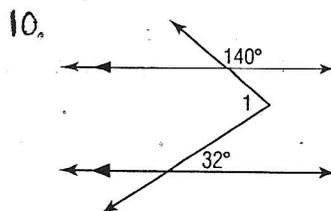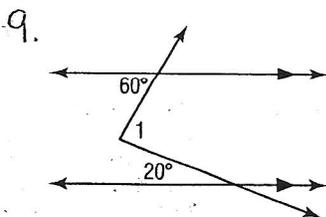
3-2 Study Guide and Intervention *(continued)*

Angles and Parallel Lines

Exercises

Find x and y in each figure.

1.

$(5x - 5)°$
$(6y - 4)°$
$(4x + 10)°$

2.

$90°$ $(15x + 30)°$

$(3y + 18)°$ $10x°$

3.

$(11x + 4)°$ $(5y + 5)°$

$5x°$ $(13y - 5)°$

4.

$3x°$
$2y°$
$4y°$ $(5x - 20)°$
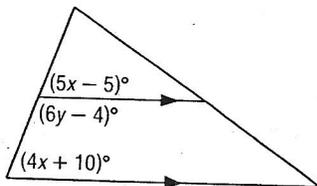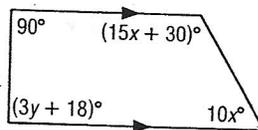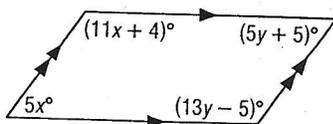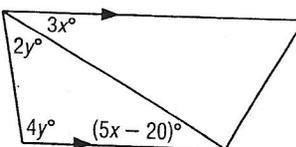
Find x, y, and z in each figure.

5.

$(4z + 6)°$
$x°$
$106°$
$2y°$

6.

$2y°$ $z°$
$2x°$ $90°$ $x°$

Find x and y in each figure.

7.

$x°$
$y°$ $40°$
$90°$

8.

$x°$
$y°$
$60°$
$50°$

9.

$60°$
$61°$
$y°$
$x°$