

Name: _____

Date: _____

Parallel and Perpendicular Line Practice

① Write the slope intercept form of the equation of the line parallel to the given line.

Ⓐ $y = -x + 13$ through $(8, 7)$

Ⓑ $8y + 4 = 3x$ through $(6, -2)$

Ⓒ $5x + 6y = -12$ through $(-7, -4)$

Ⓓ $y = \frac{7}{5}x + 2$ through $(1, -3)$

② Write the slope intercept form of the equation of line perpendicular to the given line.

Ⓐ $y = \frac{8}{3}x + 11$ through $(-7, 3)$

Ⓑ $-x + 2y = 2$ through $(5, -2)$

Ⓒ $x - y = 4$ through $(-4, 3)$

Ⓓ $2y = -x - 2$ through $(3, 4)$

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①

Answers

a) $y = -x + 13$ through $(8, 7)$

b) $8y + 4 = 3x$ through $(6, -2)$

$y = -x + 15$

$8y = 3x - 34$

c) $5x + 6y = -12$ through $(-7, -4)$

d) $y = \frac{7}{5}x + 2$ through $(1, -3)$

$6y = -5x - 59$

$5y = 7x - 22$

②

a) $y = \frac{8}{3}x + 11$ through $(-7, 3)$

b) $-x + 2y = 2$ through $(5, -2)$

$8y = -3x + 3$

$y = -2x + 8$

c) $x - y = 4$ through $(-4, 3)$

d) $2y = -x - 2$ through $(3, 4)$

$y = -x - 1$

$y = 2x - 2$