



Math worksheet on 'Slope - Find Perpendicular - Slope Zero Intercept Form to Standard Form (Level 1)'. Part of a broader unit on 'Slopes and Perpendiculars - Practice'

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1 What line equation in standard form would have a slope that is PERPENDICULAR to the slope of this line equation?

$$y = \frac{1}{2}x$$

| | |
|-----------------|---------------|
| a | b |
| $0.5x + 1y = 2$ | $6x + 3y = 6$ |
| c | d |
| $-4x + 2y = 4$ | $2x + 2y = 4$ |
| | |

2 What line equation in standard form would have a slope that is PERPENDICULAR to the slope of this line equation?

$$y = 2x$$

| |
|--------------------|
| a |
| $2x + 1y = 0.5$ |
| b |
| $-0.5x + 1y = 0.5$ |
| c |
| $0.5x + 2y = 1$ |
| d |
| $1.5x + 3y = 1.5$ |

3 What line equation in standard form would have a slope that is PERPENDICULAR to the slope of this line equation?

$$y = \frac{1}{3}x$$

| | |
|----------------|------------------|
| a | b |
| $-6x + 2y = 6$ | $3x + 2y = 6$ |
| c | d |
| $9x + 3y = 9$ | $0.67x + 2y = 6$ |
| | |

4 What line equation in standard form would have a slope that is PERPENDICULAR to the slope of this line equation?

$$y = -4x$$

| | |
|-------------------|-------------------|
| a | b |
| $-0.75x + 3y = 6$ | $-12x + 3y = 6$ |
| c | d |
| $0.75x + 3y = 6$ | $-0.13x + 1y = 2$ |
| | |

5 What line equation in standard form would have a slope that is PERPENDICULAR to the slope of this line equation?

$$y = -2x$$

| | |
|-------------------|------------------|
| a | b |
| $1x + 2y = 6$ | $-0.5x + 1y = 3$ |
| c | d |
| $-0.25x + 1y = 3$ | $-2x + 1y = 3$ |
| | |

6 What line equation in standard form would have a slope that is PERPENDICULAR to the slope of this line equation?

$$y = 1x$$

| | |
|---------------|----------------|
| a | b |
| $1x + 1y = 3$ | $1x + 2y = 6$ |
| c | d |
| $2x + 2y = 6$ | $-2x + 2y = 6$ |
| | |

7 What line equation in standard form would have a slope that is PERPENDICULAR to the slope of this line equation?

$$y = -\frac{1}{5}x$$

| | |
|------------------|----------------|
| a | b |
| $-0.4x + 2y = 2$ | $-5x + 2y = 2$ |
| c | d |
| $-5x + 1y = 1$ | $10x + 2y = 2$ |
| | |