| | | D er & A 238 – Paralle | - | | | Teachers Teaching with Techn | | | | | |
|-------------|--|--|------|--------------------|----|------------------------------|-----------|--------|---------|------------------------|--|
| Nam Scor | | | | | | Assessment | Navigator | | Student | 30 min | |
| Теас | her: | | | | | | | | | | |
| Q.1. | Wh | Which one of the following is parallel to the line with equation: $y = 2x + 3$ | | | | | | | | | |
| | a) | $y = -\frac{1}{2}x + 2$ | b) y | y = x + 3 | c) | y = -2x + 1 | d) | y = 2x | e) | $y = \frac{1}{2}x + 1$ | |
| Q.2. | Which one of the following pairs of equations are parallel? | | | | | | | | | | |
| | a) | y = 3x + 5 $y = 5x + 3$ | | | | y = 3x + 7 $y = 3x - 3$ | | - | | • | |
| Q.3. | The | The graphs shown could have equations: | | | | | | | | | |
| | a) | | | y = 2x + 3 | 3 | | | Ŷ | | | |
| | | $y = 2x - 3$ $y = -\frac{1}{2}x$ | d) | y = x y = x + 3 | | | | | | | |
| | e) | y = 2x $y = 2x - 3$ | | | | / | | | | | |
| Q.4. | Determine the equation to the line parallel to $4x + 2y = 7$ passing through the point (2, 6) in the | | | | | | | | | | |
| | form y = | | | | | | | | | | |
| | | 4x + 2y = c | | | | | | | | | |
| | | 4(2) + 2(6) 4x + 2y = 2 | | | | | | | | | |
| | | y = -2x + 1 | | | | | | | | | |

Q.5. The line AB passes through A:(2, 6) and B:(3, 8). Line CD is parallel to AB and passes through C:(2, 9) and D:(3, y). Determine the value of y.

y = 11

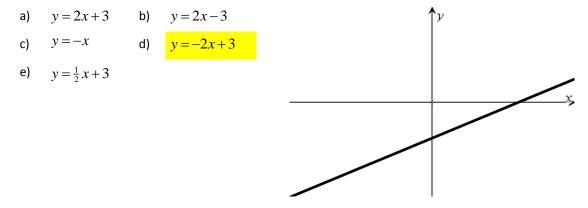


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Q.6. Which line is perpendicular to: y = 2x - 1

a)
$$y = -\frac{1}{2}x + 3$$
 b) $y = -2x - 1$ c) $y = \frac{1}{2}x - 1$ d) $y = 2x - 1$ e) $y = \frac{1}{2}x + 1$

Q.7. A perpendicular line sharing the same x axis intercept could be:



Q.8. Determine the equation to the line perpendicular to: $y = \frac{1}{3}x + 4$ passing through the point (2, 1)

$$y = -3(x-2) + 1$$
$$y = -3x + 7$$

- Q.9. Which line is perpendicular to: y = 3x 1
 - a) x+3y=12 b) -3x+y=1 c) y-3x-1=0 d) y-3x=-1 e) 3x+y=-1
- Q.10. Three lines are given as **AB**: $y = m_1x + 2$, **CD**: $y = m_2x 1$ and **EF**: $y = m_3x + 1$. If **EF** is perpendicular to **AB** and parallel to **CD**. Which <u>one or more</u> of the following must be true:

a)
$$m_1 \cdot m_2 = -1$$
 b) $m_1 \cdot m_3 = -1$ c) $m_2 \cdot m_3 = -1$ d) $m_2 = m_3$ e) $m_1 \cdot m_2 \cdot m_3 = -1$

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