

Grade 9 Mathematics Worksheet

Linear equations

Questions:

- 1. How are the following pairs of functions / graphs related?
 - a) y = 2x + 3 and 2y 4x = 3
 - b) $y = x^2 \text{ and } y = x^2 + 2$



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Solution:

- 1. a) $2y-4x=3 \rightarrow 2y=4x+3 \rightarrow y=2x+\frac{3}{2}$ and y=2x+3. These two graphs are parallel since they have the same gradients.
- b) $y = x^2$ and $y = x^2 + 2$ differ by two. The first graph is 2 units below the second graph.