

Intro to Exponential Equations

scan for answers



Level 1 - Identify equations and graphs as linear, quadratic or exponential

Level 2 - Identify tables and ordered pairs as linear, quadratic or exponential

Chapter 7: Worksheet 12

Level 1

Identify whether the equation is linear, quadratic or exponential

a) $y = x^2$	b) $y = 2^x$	c) $y = 2x$
d) $y = 2x^2 + 2x - 2$	e) $y = 2x + 2$	f) $y = 2^{x-2}$
g) $y = (x - 2)(x - 2)$	h) $y = \frac{1}{2}x + 2$	i) $y = \left(\frac{1}{2}\right)^{-x}$

Identify whether the graph is linear, quadratic or exponential

j)	k)	l)
m)	n)	o)
p)	q)	r)

Level 2

Identify whether the table represents a linear, quadratic or exponential relationship.

a) <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>x</td><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td>y</td><td>4</td><td>8</td><td>16</td><td>32</td><td>64</td></tr> </table>	x	0	1	2	3	4	y	4	8	16	32	64	b) <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>x</td><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td>y</td><td>9</td><td>11</td><td>14</td><td>18</td><td>23</td></tr> </table>	x	0	1	2	3	4	y	9	11	14	18	23	c) <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>x</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>y</td><td>3</td><td>6</td><td>12</td><td>24</td><td>48</td></tr> </table>	x	1	2	3	4	5	y	3	6	12	24	48
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Identify if the set of ordered pairs represents a linear, quadratic or exponential relationship.

m) $\{(-2, 1), (-1, -2), (0, -3), (1, -2), (2, 1)\}$	n) $\left\{\left(-2, -\frac{11}{4}\right), \left(-1, -\frac{5}{2}\right), (0, -2), (1, -1), (2, 1)\right\}$
o) $\{(-2, 2), (-1, 4), (0, 8), (1, 16), (2, 32)\}$	p) $\{(-2, -5), (-1, -3), (0, -1), (1, 1), (2, 3)\}$
q) $\left\{(-2, -5), \left(-1, -\frac{7}{2}\right), (0, -2), \left(1, -\frac{1}{2}\right), (2, 1)\right\}$	r) $\left\{(-2, 12), (-1, 6), (0, 3), \left(1, \frac{3}{2}\right), \left(2, \frac{3}{4}\right)\right\}$