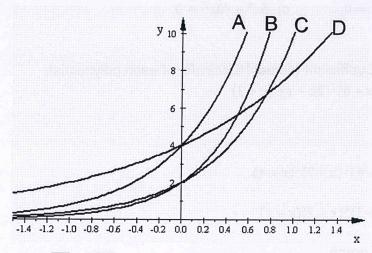
1.
$$y = 4(2)^x$$

2.
$$y = 2(5)^x$$

3.
$$y = 2(8)^x$$

4.
$$y = 4(5)$$



5. If
$$\frac{\sqrt{72} - \sqrt{32}}{2} = 2^a$$
, what is the value of a? A) 2 B) $\frac{1}{2}$ C) $\frac{-1}{2}$ D) $\frac{-3}{2}$

C)
$$\frac{-1}{2}$$

D)
$$\frac{-3}{2}$$

6. Which of the following is equivalent to $(1-p)(1+p+p^2+p^3+p^4+p^5+p^6)$?

A)
$$1 - p^8$$

B)
$$1 - p^7$$

C)
$$1 - p^6$$

D)
$$1 - p^5$$

Bellwork Algebra 2 Friday, January 25, 2019

Answers

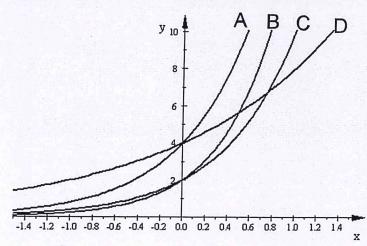
Without using a calculator match the given equations with the graphs shown.

1.
$$D y = 4(2)^x$$

2.
$$y = 2(5)^x$$

3.
$$y = 2(8)^x$$

4.
$$A y = 4(5)^x$$



+ 124 are A & D by using
the Y-INT(4). Since A
grows faster it has
the bigger base (#4)

* 223 are BEC using the x-177 (2). B grows faster so it has the bigger base (#3)

5. If
$$\frac{\sqrt{72} - \sqrt{32}}{2} = 2^a$$
, what is the value of a? A) 2 B) $\frac{1}{2}$ C) $\frac{-1}{2}$ D) $\frac{-3}{2}$

$$B) \frac{1}{2}$$

C)
$$\frac{-1}{2}$$

D)
$$\frac{-3}{2}$$

$$= \frac{2\sqrt{2}}{7} = \sqrt{2} = 2\sqrt{2} = 2^{\textcircled{a}}$$

$$a = \frac{1}{2}$$

6. Which of the following is equivalent to $(1-p)(1+p+p^2+p^3+p^4+p^5+p^6)$?

A)
$$1 - p^8$$

$$(1+p+p^2 \dots p^6) - (p+p^2 + \dots p^7)$$

B)
$$1 - p^7$$

$$= 1 - p^7$$

C)
$$1 - p^6$$

D)
$$1 - p^5$$