

1. For $y = 2(0.3)^x - 7$ state

- a) x intercept
- b) y intercept
- c) domain
- d) range
- e) growth or decay?
- f) Equation of horizontal asymptote
- g) Common ratio
- h) Transformational form
- i) Sketch

2. For $y = 4(1.5)^x - 5$

- a) x intercept
- b) y intercept
- c) domain
- d) range
- e) growth or decay?
- f) Equation of horizontal asymptote
- g) Common ratio
- h) Transformational form
- i) sketch

3. $y = \frac{1}{2}(6.5^x) + 3$

- a) x intercept
- b) y intercept
- c) domain
- d) range
- e) growth or decay?
- f) Equation of horizontal asymptote
- g) Common ratio
- h) Transformational form
- i) sketch

4. $y = 2(2.4)^x - 6$

- a) x intercept
- b) y intercept
- c) domain
- d) range
- e) growth or decay?
- f) Equation of horizontal asymptote
- g) Common ratio
- h) Transformational form
- i) sketch

5. $y = \frac{1}{2}(2)^x - 3$

- a) x intercept
- b) y intercept
- c) domain
- d) range
- e) growth or decay?
- f) Equation of horizontal asymptote
- g) Common ratio
- h) Transformational form
- i) sketch

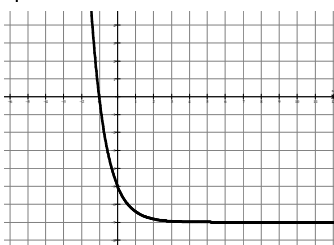
6. $y = 4(0.5)^x - 12$

- a) x intercept
- b) y intercept
- c) domain
- d) range
- e) growth or decay?
- f) Equation of horizontal asymptote
- g) Common ratio
- h) Transformational form
- i) sketch

1. For $y = 2(0.3)^x - 7$ state

- x intercept
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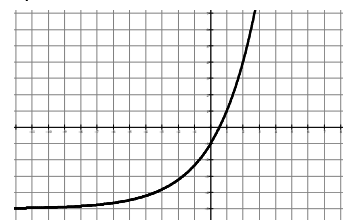
- $x = -0.76$
- $(0, -5)$
- $\{x \mid x \in \mathbb{R}\}$
- $\{y \mid y > -7; y \in \mathbb{R}\}$
- Decay $b < 1$
- $y = -7$
- none
- $\frac{1}{2}(y + 7) = (0.3)^x$



2. For $y = 4(1.5)^x - 5$

- x intercept
- y intercept
- domain
- range
- growth or decay?
- Equation of horizontal asymptote
- Common ratio
- Transformational form
- sketch

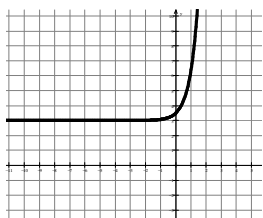
- $x = 0.55$
- $(0, -1)$
- $\{x \mid x \in \mathbb{R}\}$
- $\{y \mid y > -5; y \in \mathbb{R}\}$
- Growth $b > 1$
- $y = -5$
- none
- $\frac{1}{4}(y + 5) = (1.5)^x$



3. $y = \frac{1}{2}(6.5^x) + 3$

- x intercept
- y intercept
- domain
- range
- growth or decay?
- Equation of horizontal asymptote
- Common ratio
- Transformational form
- sketch

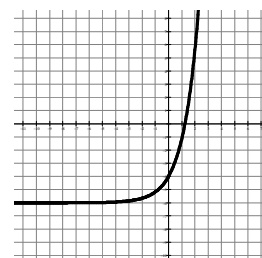
- $x = 0.96$
- $(0, 3.5)$
- $\{x \mid x \in \mathbb{R}\}$
- $\{y \mid y > 3; y \in \mathbb{R}\}$
- growth $b > 1$
- $y = 3$
- none
- $2(y - 3) = (6.5)^x$



4. $y = 2(2.4)^x - 6$

- x intercept
- y intercept
- domain
- range
- growth or decay?
- Equation of horizontal asymptote
- Common ratio
- Transformational form
- sketch

- $x = 0.79$
- $(0, -4)$
- $\{x \mid x \in \mathbb{R}\}$
- $\{y \mid y > -6; y \in \mathbb{R}\}$
- Growth $b > 1$
- $y = -6$
- none
- $\frac{1}{2}(y + 6) = (2.4)^x$



5. $y = \frac{1}{2}(2)^x - 3$

- a) x intercept
- b) y intercept
- c) domain
- d) range
- e) growth or decay?
- f) Equation of horizontal asymptote
- g) Common ratio
- h) Transformational form
- i) sketch

- a) $x = 2.58$
- b) $(0, -2.5)$
- c) $\{x \mid x \in \mathbb{R}\}$
- d) $\{y \mid y > -3; y \in \mathbb{R}\}$
- e) growth $b > 1$
- f) $y = -3$
- g) none
- h) $2(y + 3) = (2)^x$

6. $y = 4(0.5)^x - 12$

- a) x intercept
- b) y intercept
- c) domain
- d) range
- e) growth or decay?
- f) Equation of horizontal asymptote
- g) Common ratio
- h) Transformational form
- i) sketch

- a) $x = -1.58$
- b) $(0, -8)$
- c) $\{x \mid x \in \mathbb{R}\}$
- d) $\{y \mid y > -12; y \in \mathbb{R}\}$
- e) decay $b < 1$
- f) $y = -12$
- g) none
- h) $\frac{1}{4}(y + 12) = (0.5)^x$