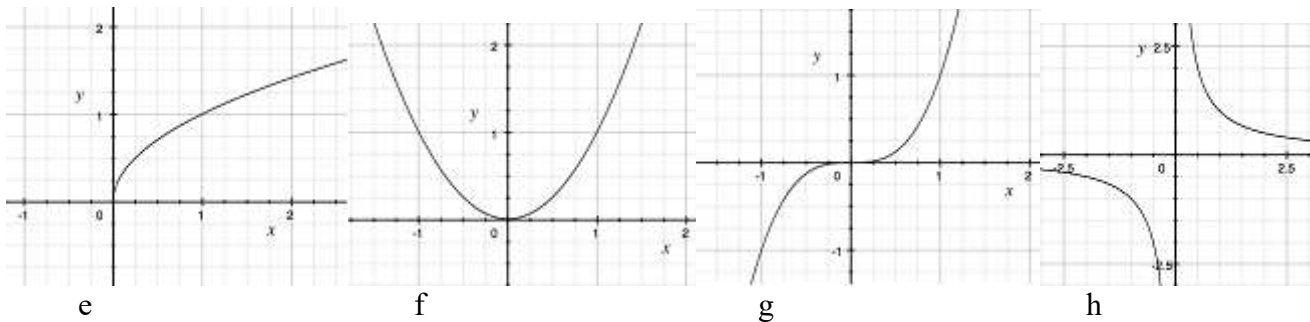
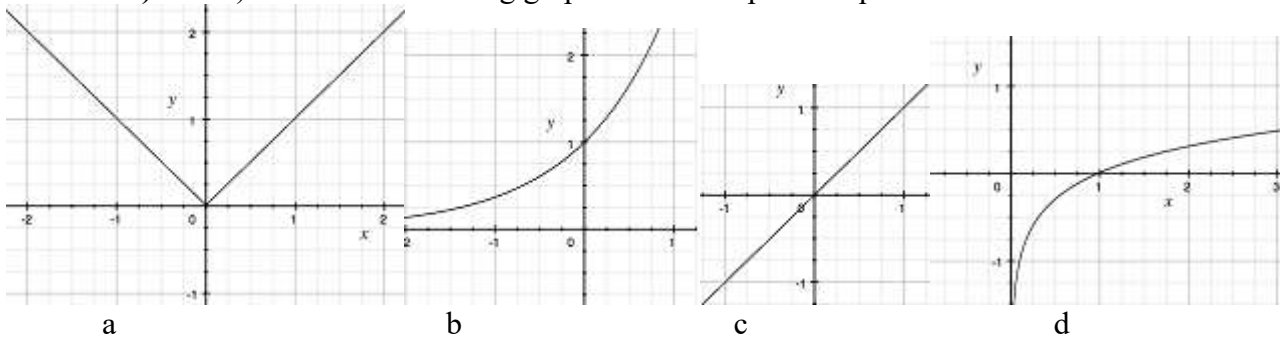


- 1) Use the equation $y = 2x + 3$
- Write a parallel line through the point (4,7)
 - Write a perpendicular line through the point (8,3)

- 2) Solve the system of equations
- $$2x + y = 9$$
- $$3x - 2y = 10$$

- 3) a) Match the following graphs with their parent equation

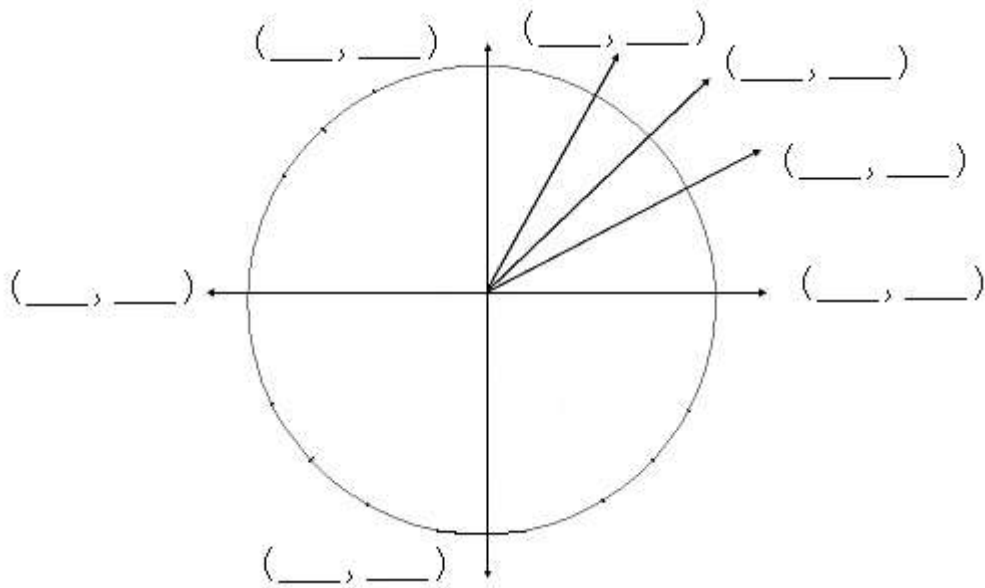


- | | | | |
|-------------------------|----------------------|-----------------|--------------------|
| $y = x$ _____ | $y = x^2$ _____ | $y = x^3$ _____ | $y = \log x$ _____ |
| $y = \frac{1}{x}$ _____ | $y = \sqrt{x}$ _____ | $y = e^x$ _____ | $y = x $ _____ |

5) a) Convert to radians
 140°

b) Convert to degrees
 $\frac{3\pi}{2}$

c) Fill in values for the unit circle



6) A) Convert to log
 $2^x - 5 = y$

B) Convert to standard form
 $\ln(x - 5) = y$

C) Change to base 10
 $\log_2 7$

D) Simplify
 $\log x^2 + \log y - 3 \log z$

E) $\log 2 \approx 0.301$ $\log 8 \approx 0.903$

$\log 16 =$

$\log 4 =$