

# "What do you say if you meet a toad?"

Find the inverse function for each function given. The answer to each problem will match a letter that will allow you to figure out the joke.

1.  $f(x) = \frac{2}{x+5}$

2.  $f(x) = \frac{7}{4-x}$

3.  $f(x) = \sqrt{x+3}$

4.  $f(x) = \frac{4x+1}{x}$

5.  $f(x) = (x+2)^2$

6.  $f(x) = \frac{5x+2}{3x-1}$

7.  $f(x) = 5\sqrt[3]{x-1}$

8.  $f(x) = \frac{-x-6}{x-2}$

A:  $f(x) = \frac{4x-7}{x}$

R:  $f(x) = \frac{x+2}{3x-5}$

W:  $f(x) = \frac{2x-6}{x+1}$

E:  $f(x) = x^2 - 3$

N:  $f(x) = \frac{x^3+125}{125}$

T:  $f(x) = \frac{1}{x-4}$

M:  $f(x) = x^2 - 5$

W:  $f(x) = \sqrt{x} - 2$

I:  $f(x) = \frac{1-3x}{x}$

S:  $f(x) = \frac{2-5x}{x}$

8   2   6   4   1   7   3   5

Answer: \_\_\_\_\_

**"What do you get when you feed a cat lemons?"**

Find the inverse function for each function given. The answer to each problem will match a letter that will allow you to figure out the joke.

1.  $f(x) = \frac{3}{4+x}$

S:  $f(x) = \frac{4x-3}{x+2}$

2.  $f(x) = \frac{5}{3-x}$

M:  $f(x) = \frac{x-2}{x}$

3.  $f(x) = (x-1)^2$

U:  $f(x) = \frac{3x-5}{x}$

4.  $f(x) = \frac{2x+1}{x}$

S:  $f(x) = \frac{3-4x}{x}$

5.  $f(x) = \frac{3x+4}{2x-3}$

C:  $f(x) = (x+1)^2$

R:  $f(x) = 1 \pm \sqrt{x}$

6.  $f(x) = \frac{-2x-3}{x-4}$

U:  $f(x) = \frac{3x+4}{2x-3}$

A:  $f(x) = \frac{4x+3}{x+2}$

7.  $f(x) = 3\sqrt[3]{x}$

O:  $f(x) = \frac{1}{x-2}$

S:  $f(x) = \frac{x^3}{27}$

8.  $f(x) = \frac{5}{\sqrt{x}}$

P:  $f(x) = \frac{25}{x^2}$

6 4 2 3 8 5 7 1