

Write an equation given the parent fcn + description

1. $y = x^2$ vertical reflection, vertical stretch of 3
translation 3L, 4U

2. $y = \frac{1}{x^2}$ vertical shrink of $\frac{1}{4}$, horizontal reflection,
translation 8R, 2D

3. $y = \log x$ vertical stretch of 5, horizontal shrink of $\frac{1}{2}$
translation 7U

4. $y = \tan x$ horizontal stretch of 4, translation 3L

5. $y = \sqrt{x}$ horizontal + vertical reflection, translation
2L

6. $y = |x|$ vertical reflection, vertical shrink of $\frac{2}{3}$
translation 1R, 1U

7. $y = x$ vertical stretch of 10, translation 9D

8. $y = \cos x$ horizontal stretch of 7, translation $\frac{\pi}{2}$ L,
6D

9. $y = \frac{1}{x}$ Translation 4L, 2U

10. $y = \sqrt[3]{x}$ vertical reflection, horizontal stretch of 10
translation 3R, 5D

Describe the transformations using proper vocab.

State what a, b, h and k equal first. State parent fcn.

$$11. y = \frac{5}{4}(x-1)^3 + 7$$

$$12. y = -\sin(\frac{1}{4}(x+1)) - 3$$

$$13. y = 6x + 9$$

$$14. y = \log(-3(x-1)) - 8$$