

Replace the polar equation with an appropriate rectangular equation. Then match.

_____ 1. $r = \tan \theta \sec \theta$

_____ 2. $r^2 = \tan \theta \sec^2 \theta$

_____ 3. $r^2 = \sec^2 \theta (\tan \theta + 1)$

_____ 4. $r^2 = \sec \theta \csc \theta$

_____ 5. $r^3 = \sec^2 \theta \csc \theta$

_____ 6. $r = \frac{\sec \theta}{r \cos \theta - \tan \theta}$

_____ 7. $r = \sec \theta - \csc \theta$

_____ 8. $r = \frac{1}{\cos \theta + \sin \theta}$

_____ 9. $r = \frac{\csc \theta}{\cot \theta - r \cos \theta}$

A. $y = x - 1$

B. $y = x + 1$

C. $y = 1 - x$

D. $y = \frac{1}{x}$

E. $y = \frac{1}{x^2}$

F. $y = \frac{1}{x^3}$

G. $y = \frac{1}{x^4}$

H. $y = \frac{1}{x} + 1$

I. $y = \frac{1}{x} - 1$

J. $y = 1 - \frac{1}{x}$

K. $y = \frac{x}{1-x}$

L. $y = \frac{x}{x+1}$

M. $y = \frac{x}{x-1}$

N. $y = x^2$

O. $y = x^3$

P. $y = x^4$

Q. $y = x^2 - 1$

R. $y = x^2 + 1$

S. $y = 1 + x^2$

T. $y = x^2 + x$

U. $y = x^2 - x$

V. $y = x - x^2$

W. $y = x^3 + x$

X. $y = x - x^3$

Y. $y = x^3 - x$

Z. None of these