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Write the polar form of the rectangular equation.
 $y^3 = 2x$

Assume that all variables represent positive values.

(A) $r = \frac{2}{\cos^2 \theta \tan \theta}$
(B) $r^2 = \frac{2}{\sin^2 \theta \tan \theta}$
(C) $r^2 = \frac{2}{\cos^2 \theta \tan \theta}$
(D) $r = \frac{2}{\sin^2 \theta \tan \theta}$

CONVERTING POLAR EQUATIONS

$$x = r \cos \theta \quad y = r \sin \theta$$

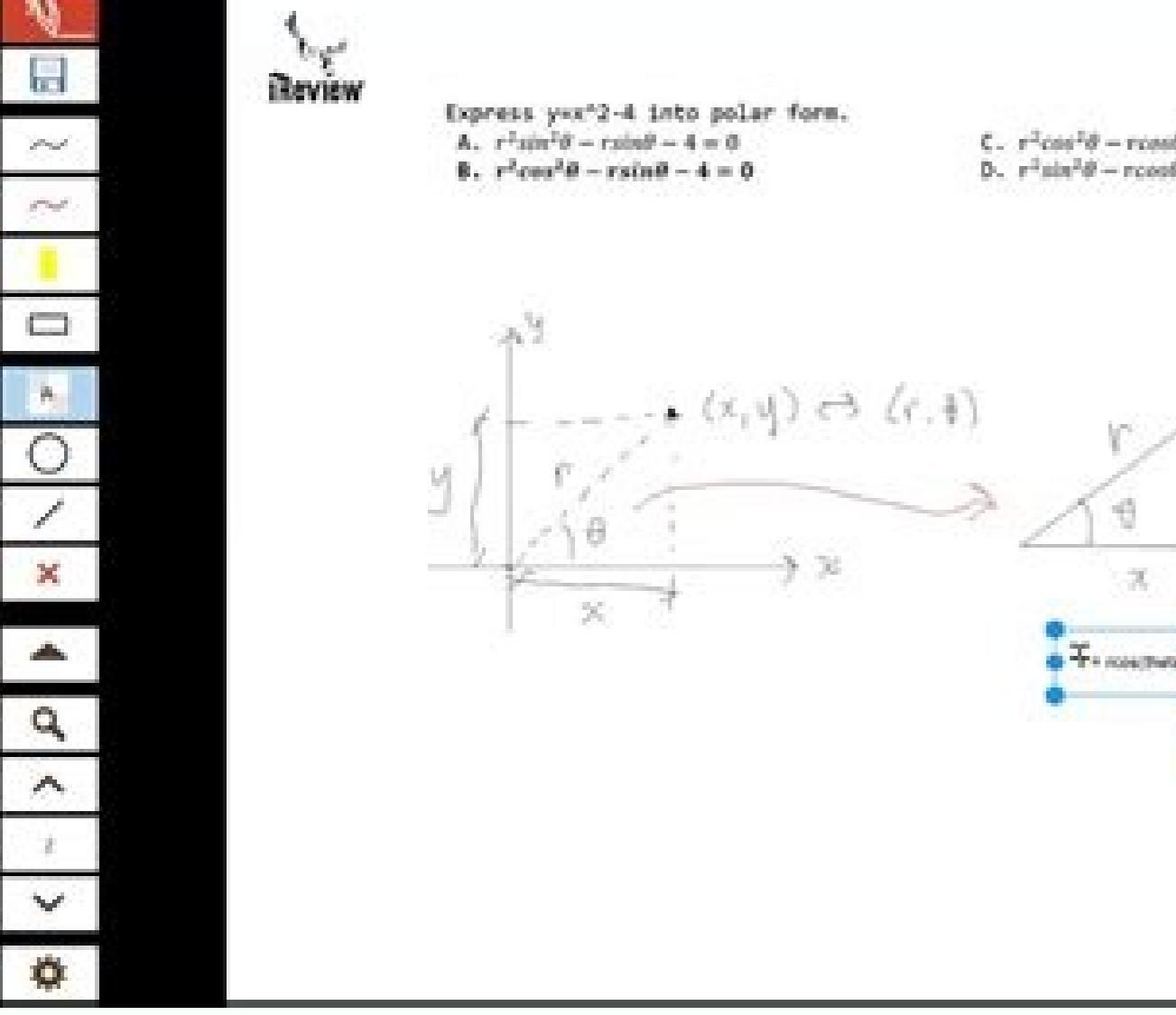
$$r^2 = x^2 + y^2 \quad \theta = \tan^{-1} \left(\frac{y}{x} \right)$$

$$\begin{aligned} r &= -3(\cos 2\theta) \\ &= -3(\cos 2\theta - \sin 2\theta) \\ &\therefore \cos 2\theta = u \quad r \sin 2\theta = y \\ r &= -3 \left(\frac{u^2}{v^2} - \frac{y^2}{v^2} \right) \\ &= \end{aligned}$$

$$y^2 = v^2$$

$$r^2 \sin^2 \theta = r^2 \cos^2 \theta \quad \text{or}$$

$$r \cos \theta =$$



Rectangular equation to polar equation calculator. Which rectangular equation is equivalent to the polar equation $r \csc \theta = 8$. Which rectangular equation is equivalent to the polar equation $r \sin \theta = -2$. Rectangular equation to polar equation symbolab. Convert rectangular equation to polar equation. Polar to rectangular equation calculator.

Problems were equations in rectangular form are converted to polar form, using the relationship between polar and rectangular coordinates, are presented along with detailed solutions. In what follows the polar coordinates of a point are (R, θ) where R is the radial coordinate and θ is the angular coordinate. The relationships between the rectangular (x, y) and polar (R, θ) coordinates of a points are given by $R^2 = x^2 + y^2$, $y = R \sin \theta$, $x = R \cos \theta$. Problems on Converting Rectangular Equations to polar form Problem 1 Convert the equation $2x + 2y - x + y = 0$ to polar form. Solution to Problem 1 Let us rewrite the equations as follows: $2(x + y) + 2x + y = 0$ We now use the formulas giving the relationship between polar and rectangular coordinates: $R^2 = x^2 + y^2$ and $x = R \cos \theta$, $y = R \sin \theta$. So we have $2(R^2 \cos \theta + R^2 \sin \theta) + 2(R \cos \theta + R \sin \theta) = 0$. Factoring out R from the terms containing R gives $R(2R \cos \theta + 2R \sin \theta + 2) = 0$. Since $R \neq 0$ (check that for $\theta = \pi/2$, $R = 0$), we have $2R \cos \theta + 2R \sin \theta + 2 = 0$. This simplifies to $R \cos \theta + R \sin \theta + 1 = 0$. Dividing by R gives $\cos \theta + \sin \theta + 1/R = 0$. The above equation gives $R = \sqrt{2} \sec \theta + 1$. The pole is located at $(0, \pi/2)$. Problem 2 Convert the equation $x + y = 8$ to polar form. Solution to Problem 2 Use $x = R \cos \theta$ and $y = R \sin \theta$ in the given equation: $R \cos \theta + R \sin \theta = 8$. Factoring out R gives $R(\cos \theta + \sin \theta) = 8$. Dividing by R gives $\cos \theta + \sin \theta = 8/R$. The pole is located at $(0, \pi/2)$. Problem 3 Convert the equation $x^2 + y^2 = 16$ to polar form. Solution to Problem 3 Using $x = R \cos \theta$ and $y = R \sin \theta$, we have $R^2 = 16$. This gives $R = 4$. The pole is located at the origin $(0, 0)$.

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