

$$\#36 \quad r = -2 \csc \theta$$

$$\frac{r}{\csc \theta} = -2$$

$$r \sin \theta = -2$$

$$\underline{\underline{y = -2}}$$

$$\#43 \quad x = 2$$

$$r \cos \theta = 2$$

$$r = 2 / \cos \theta$$

$$\underline{\underline{r = 2 \sec \theta}}$$

$$\#45 \quad 2x - 3y = 5$$

$$2r \cos \theta - 3r \sin \theta = 5$$

$$r(2 \cos \theta - 3 \sin \theta) = 5$$

$$r = \frac{5}{2 \cos \theta - 3 \sin \theta}$$

$$\#47 \quad (x-3)^2 + y^2 = 9$$

$$x^2 - 6x + 9 + y^2 = 9$$

$$x^2 - 6x + y^2 = 0$$

$$x^2 + y^2 - 6x = 0$$

$$r^2 - 6r \cos \theta = 0$$

$$r(r - 6 \cos \theta) = 0$$

$$r = 0 \quad \text{or} \quad \underline{\underline{r = 6 \cos \theta}}$$

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#49

$$(x+3)^2 + (y+3)^2 = 18$$

$$x^2 + 6x + 9 + y^2 + 6y + 9 = 18$$

$$x^2 + y^2 + 6x + 6y = 0$$

$$r^2 + 6r\cos\theta + 6r\sin\theta = 0$$

$$r(r + 6\cos\theta + 6\sin\theta) = 0$$

$$r = 0 \quad \text{or} \quad r = \underline{\underline{-6(\cos\theta + \sin\theta)}} \\ = \underline{\underline{-6\cos\theta - 6\sin\theta}}$$