

September 16, 2015

\* Focus on Tricky Circle, Completing the Square.

#d)  $(-1, 1)$ ;  $d = 8$

$(x-h)^2 + (y-k)^2 = r^2$

$h = -1$   
 $k = +1$

$(x+1)^2 + (y-1)^2 = (2\sqrt{2})^2$

$d = r^2$   
 $\pm\sqrt{8} = \sqrt{r^2}$   
 $\sqrt{8} = r$   
 $\sqrt{4 \cdot 2} = r$   
 $\sqrt{4} \cdot \sqrt{2} = r$   
 $2\sqrt{2} = r$

$(2\sqrt{2})^2 = (2\sqrt{2})(2\sqrt{2})$   
 $= 2 \cdot 2 \cdot \sqrt{2} \cdot \sqrt{2}$   
 $= 4 \cdot 2$   
 $= 8 \checkmark$

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Center:  $(10, -14)$

Target to  $x = 13$

$r = 3$

$(x-10)^2 + (y+14)^2 = 9$

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①  $8x + x^2 - 2y = 64 - y^2$

②  $x^2 + 8x + y^2 - 2y = 64$

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$\frac{8}{1} \cdot \frac{1}{2} = \frac{8}{2} = 4$

$\frac{8}{2}$

$\frac{5}{7} \cdot \frac{1}{2} = \frac{5}{14}$

$\frac{5}{7}$

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$\begin{pmatrix} x & y \\ 16 & 6 \\ -4 & +2 \end{pmatrix}$

$(12, 8)$

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$x=7$

$y=-4$

$x=17$

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