Graphing Conics from an Equation

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| **The Equation** | **The Parts** | **The Graph** |
| $$\left(x-3\right)^{2}+\left(y+1\right)^{2}=25$$ | *Type of conic:*\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_*If parabola, positive or negative?*\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_*If parabola, does x or y “win”?*\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_$$\left(h, k\right):$$\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ *r:**OR p:* |  |
| $$12\left(x+6\right)=\left(y-7\right)^{2}$$ | *Type of conic:*\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_*If parabola, positive or negative?*\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_*If parabola, does x or y “win”?*\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_$$\left(h, k\right):$$\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ *r:**OR p:* |  |
| $$\left(x-5\right)^{2}+\left(y+2\right)^{2}=16$$ | *Type of conic:*\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_*If parabola, positive or negative?*\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_*If parabola, does x or y “win”?*\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_$$\left(h, k\right):$$\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ *r:**OR p:* |  |
| $$4x^{2}=\left(y+1\right)^{2}$$ | *Type of conic:*\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_*If parabola, positive or negative?*\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_*If parabola, does x or y “win”?*\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_$$\left(h, k\right):$$\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ *r:**OR p:* |  |
| $$-8\left(y+5\right)=\left(x+2\right)^{2}$$ | *Type of conic:*\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_*If parabola, positive or negative?*\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_*If parabola, does x or y “win”?*\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_$$\left(h, k\right):$$\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ *r:**OR p:* |  |
| $$\left(x-1\right)^{2}+\left(y+3\right)^{2}=64$$ | *Type of conic:*\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_*If parabola, positive or negative?*\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_*If parabola, does x or y “win”?*\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_$$\left(h, k\right):$$\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ *r:**OR p:* |  |
| $$20y=\left(x+2\right)^{2}$$ | *Type of conic:*\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_*If parabola, positive or negative?*\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_*If parabola, does x or y “win”?*\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_$$\left(h, k\right):$$\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ *r:**OR p:* |  |

Graphing Review

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| 1. $y=-2x+6$

 | 1. $y+1=3(x-4)$

 | 1. $y-5=\frac{1}{4}(x+1)$

 |
| 1. $f\left(x\right)=4\left|x-7\right|-5$ *abs. value V!*

 | 1. $g\left(x\right)=-\left|x+3\right|+6$

 | 1. $h\left(x\right)=2\left|x+1\right|-7$

 |
| 1. $k\left(x\right)=2\left(x-2\right)^{2}-8$

 | 1. $m\left(x\right)=-3x^{2}+6x+6$

 | 1. $n\left(x\right)=x^{2}+8x+12$

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