

M\$5 Homework 39

- Which statement describes the graphs of the equations $x = -1$ and $3x^2 = 10y^2 + 4$?
 - They do not intersect.
 - They intersect in the second quadrant, only.
 - They intersect in the third quadrant, only.
 - They intersect in the second and in the third quadrants.
- Write the equation of an ellipse whose center is $(3, -2)$ and is tangent to the y -axis.
- If a varies inversely with b and a is multiplied by $\frac{3}{2}$, then b is
 - doubled
 - halved
 - multiplied by $\frac{2}{3}$
 - tripled
- If the point (a, b) lies on the graph of $y = f(x)$, the graph of $y = f^{-1}(x)$ must contain the point
 - $(0, b)$
 - (b, a)
 - $(a, 0)$
 - $(-a, -b)$
- Draw $f(x) = 2x^2$ and $f^{-1}(x)$ in the interval $0 \leq x \leq 2$ on the accompanying set of axes. State the coordinates of the points of intersection.

