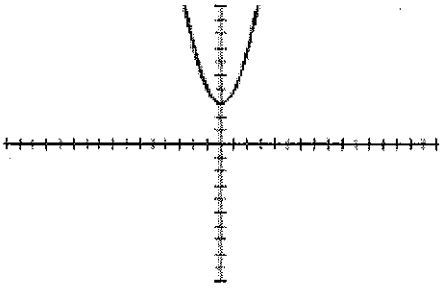
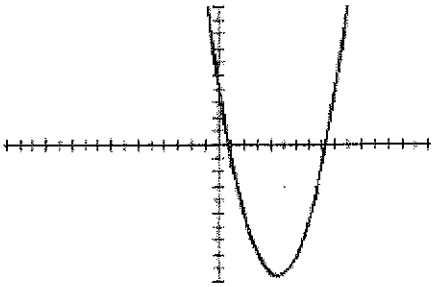
Given the graph of f(x), graph f'(x).

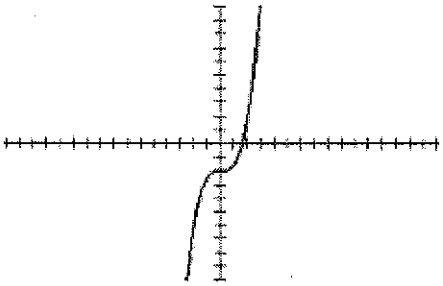
1. $f(x) = x^2$



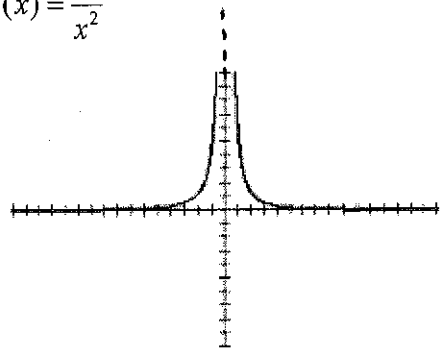
2. $f(x) = \frac{2}{3}x^2 - 6x + 4$



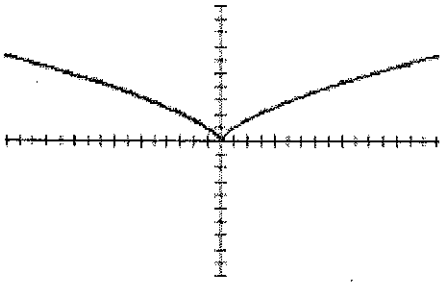
3. $f(x) = 0.5x^3 - 2$



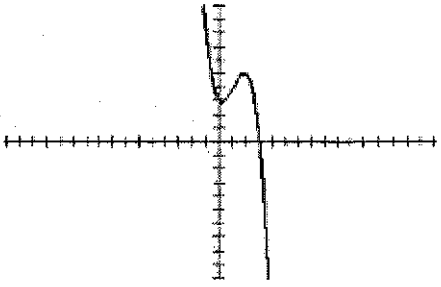
4. $f(x) = \frac{5}{x^2}$



5. $f(x) = \sqrt[3]{x^2}$



6. $f(x) = -(x^2 + 1)(x - 3)$



U2H5

Find the derivative.

1. $y = 6x$

2. $f(x) = 5x^{\frac{1}{2}}$

3. $g(x) = \sqrt[6]{x^5}$

4. $f(x) = x^{\frac{-1}{3}}$

5. $y = e^2$

6. $y = \dfrac{1}{x^{\frac{2}{3}}}$

7. $\dfrac{d}{dx}(8x^{-3})$

8. $f(x) = (\sqrt[5]{x})^2$

9. $h(x) = (3x+4)^2$

10. $g(x) = \sqrt{x}(x^2 + 2x + 3)$

11. $\dfrac{d}{dx}(x^{0.35})$

12. $y = 5x^3 - 4x^2 + 8x + 5 + x^{-3} + x^{-5}$

13. If $f(x) = 3x^2 + 5$, find $f'(2)$

14. Find the tangent line at x = 1 of $f(x) = x^5$

15. Find the tangent line at the point (8, 64) of $f(x) = 24\sqrt[3]{x} + 2x$