

Derivative Applications**Tangent & Normal****Tangent**

1. tangent of $f(x) = 3x^2$, at $x = 3$

2. tangent of $4x^2$, at $x = 6$

3. tangent of $5x^2$, at $x = 2$

4. tangent of $3\sqrt{x}$, at $x = 16$

5. tangent of $f(x) = 4x^2$, at $x = 5$

6. tangent of $4\sqrt{x}$, at $x = 4$

7. tangent of $2x^3$, at $x = 10$

8. tangent of $f(x) = x^6$, at $x = 2$

9. tangent of $\frac{(x^2 - 1)}{x^2 + x + 1}$, at $(1, 0)$

10. tangent of $f(x) = x^2 - 2x + 1$, at $x = 0$

Answers**Derivative Applications****Tangent & Normal****Tangent**

1. $y = 18x - 27$

2. $y = 48x - 144$

3. $y = 20x - 20$

4. $y = \frac{3}{8}x + 6$

5. $y = 40x - 100$

6. $y = x + 4$

7. $y = 600x - 4000$

8. $y = 192x - 320$

9. $y = \frac{2}{3}x - \frac{2}{3}$

10. $y = -2x + 1$