Keeper 4.7 Virtual Problems

Find the derivative

1.
$$(3x+7)^2 = 2y^3$$

2. $y^2 = \frac{x-1}{x+1}$

3.
$$x^3 - xy + y^3 = 1$$

4. $x = \tan y$

5.
$$x + \sin y = xy$$

6. $y^2 \cos\left(\frac{1}{y}\right) = 2x + 2y$

Find the first and second derivative

7.
$$x^2 + y^2 = 1$$

8.
$$x + \sin y = xy$$

Find the equation of the tangent line

9.
$$x^2y^2 = 9$$
 at (-1,3)

Keeper 4.8 Virtual Problems

Find the derivative

1.
$$= x^x$$
 2. $y = x^{\cos x}$

3.
$$y = x^{\ln x}$$
 4. $y = (2x - 1)^{x-3}$

5.
$$y = (\ln x)^x$$

6. $y = (x - 5)^4 (3x^3 - 1)^3$