$$= 3[3u^2 - 10(u^4 - 7u)(3u^2 - 7)] \cdot \left(\frac{1}{2}x^{\frac{1}{2}}\right)$$

$$= [3u^2 - 10(u^4 - 7u)(3u^2 - 7)] \cdot \frac{1}{2\sqrt{x}}$$

At $x = 4$:

$u = \sqrt{4}$

$= 2$

$$\frac{dy}{dx} = [3(2)^2 - 10((2)^4 - 7(2))(3(2)^2 - 7)]\frac{1}{2(2)}$$

$= 78$

14. $h(x) = f(g(x))$, therefore

$h'(x) = f'(g(x)) \times g'(x)$

$f(u) = u^2 - 1, g(2) = 3, g'(2) = -1$

Now, $h'(2) = f'(g(2)) \times g'(2)$

$\quad\quad\quad = f'(3) \times g'(2)$

Since $f(u) = u^2 - 1$, $f'(u) = 2u$, and $f'(3) = 6$,

$h'(2) = 6(-1)$

$\quad\quad = -6$.

15. $V(t) = 50\,000\left(1 - \frac{t}{30}\right)^2$

$V'(t) = 50\,000\left[2\left(1 - \frac{t}{30}\right)\left(-\frac{1}{30}\right)\right]$

$V'(10) = 50\,000\left[2\left(1 - \frac{10}{30}\right)\left(-\frac{1}{30}\right)\right]$

$\quad\quad = 50\,000\left[2\left(\frac{2}{3}\right)\left(-\frac{1}{30}\right)\right]$

$\quad\quad \doteq 2222$

At $t = 10$ minutes, the water is flowing out of the tank at a rate of 2222 L/min.

16. The velocity function is the derivative of the position function.

$s(t) = (t^3 + t^2)^{\frac{1}{2}}$

$v(t) = s'(t) = \frac{1}{2}(t^3 + t^2)^{-\frac{1}{2}}(3t^2 + 2t)$

$\quad\quad = \frac{3t^2 + 2t}{2\sqrt{t^3 + t^2}}$

$v(3) = \frac{3(3)^2 + 2(3)}{2\sqrt{3^3 + 3^2}}$

$\quad\quad = \frac{27 + 6}{2\sqrt{36}}$

$\quad\quad = \frac{33}{12}$

$\quad\quad = 2.75$

The particle is moving at 2.75 m/s.

17. a. $h(x) = p(x)q(x)r(x)$

$h'(x) = p'(x)q(x)r(x) + p(x)q'(x)r(x)$
$\quad\quad\quad + p(x)q(x)r'(x)$

b. $h(x) = x(2x + 7)^4(x - 1)^2$

Using the result from part a.,

$h'(x) = (1)(2x + 7)^4(x - 1)^2$
$\quad\quad\quad + x[4(2x + 7)^3(2)](x - 1)^2$
$\quad\quad\quad + x(2x + 7)^4[2(x - 1)]$

$h'(-3) = 1(16) + (-3)[4(1)(2)](16)$
$\quad\quad\quad + (-3)(1)[2(-4)]$

$\quad\quad = 16 - 384 + 24$

$\quad\quad = -344$

18. $y = (x^2 + x - 2)^3 + 3$

$\frac{dy}{dx} = 3(x^2 + x - 2)^2(2x + 1)$

At the point $(1, 3)$, $x = 1$ and the slope of the tangent will be $3(1 + 1 - 2)^2(2 + 1) = 0$.

Equation of the tangent at $(1, 3)$ is $y - 3 = 0$.

Solving this equation with the function, we have

$(x^2 + x - 2)^3 + 3 = 3$

$(x + 2)^3(x - 1)^3 = 0$

$x = -2$ or $x = 1$

Since -2 and 1 are both triple roots, the line with equation $y - 3 = 0$ will be a tangent at both $x = 1$ and $x = -2$. Therefore, $y - 3 = 0$ is also a tangent at $(-2, 3)$.

19. $y = \frac{x^2(1 - x)^3}{(1 + x)^3}$

$\quad = x^2\left[\left(\frac{1 - x}{1 + x}\right)\right]^3$

$\frac{dy}{dx} = 2x\left(\frac{1 - x}{1 + x}\right)^3 + 3x^2\left(\frac{1 - x}{1 + x}\right)^2$

$\quad\quad \times \left[\frac{-(1 + x) - (1 - x)(1)}{(1 + x)^2}\right]$

$\quad = 2x\left(\frac{1 - x}{1 + x}\right)^3 + 3x^2\left(\frac{1 - x}{1 + x}\right)^2\left[\frac{-2}{(1 + x)^2}\right]$

$\quad = 2x\left(\frac{1 - x}{1 + x}\right)\left[\frac{1 - x}{1 + x} - \frac{3x}{(1 + x)^2}\right]$

$\quad = 2x\left(\frac{1 - x}{1 + x}\right)\left[\frac{1 - x^2 - 3x}{(1 + x)^2}\right]$

$\quad = \frac{2x(x^2 + 3x - 1)(1 - x)^2}{(1 + x)^4}$

Review Exercise, pp. 110–113

1. To find the derivative $f'(x)$, the limit

$f'(x) = \lim\limits_{h \to 0}\dfrac{f(x + h) - f(x)}{h}$

must be computed, provided it exists. If this limit does not exist, then the derivative of $f(x)$ does not

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