

# Match-Up

# Harder Differentiation

<b>1</b>	$y = x^3 + 2x^2$
<b>2</b>	$y = 2x^3 + 3x$
<b>3</b>	$y = 3x^2 - x^3$
<b>4</b>	$y = x^4 + 2x^2 - 5x$
<b>5</b>	$y = x^3 + \frac{1}{x}$
<b>6</b>	$y = 8 + 4x - 3x^2$
<b>7</b>	$y = x^2(4x - 3)$
<b>8</b>	$y = (x + 2)(3x - 2)$
<b>9</b>	$y = 2x^4 - \frac{1}{x^2}$
<b>10</b>	$y = (x^2 + 2)(x - 5)$
<b>11</b>	$y = \frac{4x^3 - 12x^2}{2x}$
<b>12</b>	$y = \frac{6x^4 - 10}{2x}$

<b>A</b>	$\frac{dy}{dx} = 12x^2 - 6x$
<b>B</b>	$\frac{dy}{dx} = 4 - 6x$
<b>C</b>	$\frac{dy}{dx} = 4x - 6$
<b>D</b>	$\frac{dy}{dx} = 3x^2 - 10x + 2$
<b>E</b>	$\frac{dy}{dx} = 6x - 3x^2$
<b>F</b>	$\frac{dy}{dx} = 3x^2 + 4x$
<b>G</b>	$\frac{dy}{dx} = 9x^2 + \frac{5}{x^2}$
<b>H</b>	$\frac{dy}{dx} = 4x^3 + 4x - 5$
<b>I</b>	$\frac{dy}{dx} = 6x + 4$
<b>J</b>	$\frac{dy}{dx} = 3x^2 - \frac{1}{x^2}$
<b>K</b>	$\frac{dy}{dx} = 8x^3 + \frac{2}{x^3}$
<b>L</b>	$\frac{dy}{dx} = 6x^2 + 3$

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
<b>F</b>	<b>L</b>	<b>E</b>	<b>H</b>	<b>J</b>	<b>B</b>	<b>A</b>	<b>I</b>	<b>K</b>	<b>D</b>	<b>C</b>	<b>G</b>