

**Non-calculator!**

<p><b>1. <math>f(x) = 2x^2 - 1</math></b>  <b>(a) Evaluate <math>f(-1)</math></b>  <b>(b) Find <math>t</math> such that <math>f(t) = 7</math></b></p> <p>(a) <math>f(-1) = 2(-1)^2 - 1</math>  <math>= \underline{1}</math></p> <p>(b) <math>f(t) = 2t^2 - 1</math>  <math>2t^2 - 1 = 7</math>  <math>2t^2 = 8</math>  <math>t^2 = 4</math>  <math>t = \underline{\pm 2}</math></p>	<p><b>2. <math>g(x) = x^2 + 1</math></b>  <b>(a) Evaluate <math>g(2)</math></b>  <b>(b) Find <math>t</math> such that <math>g(t) = 5</math></b></p>	<p><b>3. <math>h(x) = x^2 - 7</math></b>  <b>(a) Evaluate <math>h(5)</math></b>  <b>(b) Find <math>t</math> such that <math>h(t) = 2</math></b></p>
<p><b>4. <math>f(x) = 3x^2 - 2</math></b>  <b>(a) Evaluate <math>f(-2)</math></b>  <b>(b) Find <math>m</math> such that <math>f(m) = 25</math></b></p>	<p><b>5. <math>g(x) = 4x^2 + 3</math></b>  <b>(a) Evaluate <math>g(3)</math></b>  <b>(b) Find <math>n</math> such that <math>g(n) = 7</math></b></p>	<p><b>6. <math>h(x) = 5x^2 - 1</math></b>  <b>(a) Evaluate <math>h(1)</math></b>  <b>(b) Find <math>b</math> such that <math>h(b) = 124</math></b></p>
<p><b>7. <math>f(x) = 10x^2</math></b>  <b>(a) Evaluate <math>f(-2)</math></b>  <b>(b) Find <math>b</math> such that <math>f(b) = 360</math></b></p>	<p><b>8. <math>g(x) = 6x^2 - 3</math></b>  <b>(a) Evaluate <math>g(-1)</math></b>  <b>(b) Find <math>t</math> such that <math>g(t) = 51</math></b></p>	<p><b>9. <math>h(x) = 5x^2 + 4</math></b>  <b>(a) Evaluate <math>h(5)</math></b>  <b>(b) Find <math>m</math> such that <math>h(m) = 4</math></b></p>
<p><b>10. <math>f(x) = 8x^2 - 2</math></b>  <b>(a) Evaluate <math>f(-3)</math></b>  <b>(b) Find <math>n</math> such that <math>f(n) = 798</math></b></p>	<p><b>11. <math>g(x) = 5x^2 + 7</math></b>  <b>(a) Evaluate <math>g(4)</math></b>  <b>(b) Find <math>t</math> such that <math>g(t) = 47</math></b>          Leave answer as surd in simplest form</p>	<p><b>12. <math>h(x) = 9x^2 - 14</math></b>  <b>(a) Evaluate <math>h(10)</math></b>  <b>(b) Find <math>p</math> such that <math>h(p) = 166</math></b>          Leave answer as surd in simplest form</p>