

HOMEWORK 9 Term 1 Sheet 2 advanced

<p>1.</p> <p>Simplify:</p> $6x + 2y + x - 5y$ $=$ $3\sqrt{2} + 7\sqrt{5} + \sqrt{2}$ $=$	<p>2.</p> $\sqrt{50} + \sqrt{72}$ $=$ $2\sqrt{45} + 4\sqrt{20}$ $=$	<p>3.</p> <p>Simplify:</p> $\sqrt{4a^2e}$ $=$ $\sqrt{27x^5y^2}$ $=$
<p>4.</p> <p>Expand & simplify:</p> $2(3e - 5)$ $=$ $3(2x - 1) - 2(4 - x)$ $=$	<p>5.</p> $\sqrt{5}(\sqrt{2} + 3)$ $=$ $2\sqrt{2}(3\sqrt{2} - \sqrt{6})$ $=$	<p>6.</p> $(x + 6)(x + 3)$ $=$ $(3x + 5)(2x - 1)$ $=$
<p>7.</p> $\sqrt{80} \div \sqrt{20} =$ $\frac{10\sqrt{2}}{\sqrt{6}} =$ $\frac{32\sqrt{18}}{4\sqrt{3}} =$	<p>8.</p> <p>Rationalise denom</p> $\frac{2}{\sqrt{5}}$ $\frac{4\sqrt{2} - \sqrt{3}}{\sqrt{2}}$	<p>9.</p> <p>Simplify:</p> $\frac{5}{\sqrt{2}} + \frac{1}{\sqrt{3}}$ $=$