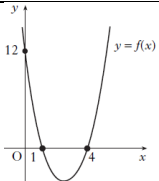
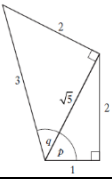


200 Exam Questions & Answers

<p>41 The graph has an equation of the form $y = k(x - a)(x - b)$. What is the equation of the graph?</p>	
<p>42 For what values of x is $6 + x - x^2 < 0$?</p>	
<p>43 Express $\log_a 25 + \log_a 4 - \log_a 20$ as the logarithm of a single number.</p>	
<p>44 Solve $\cos 2x - 3\cos x + 2 = 0$ for $0 \leq x < 360$.</p>	
<p>45 The diagram shows two right-angled triangles with sides and angles given. What is the value of $\sin(p + q)$?</p>	
<p>46 What is the derivative of $(x^3 + 4)^2$?</p>	
<p>47 The point $P(5, 12)$ lies on the curve with equation $y = x^2 - 4x + 7$. Find the equation of the tangent to the curve.</p>	
<p>48 Find $\int 4 \sin(2x + 3) dx$.</p>	
<p>49 Find $\int_{-2}^2 (x + 1)^2 dx$.</p>	
<p>50 Write $2\sin x^\circ + 3\cos x^\circ$ in the form $k\sin(x - a)$, for $k > 0$ and $0 \leq a \leq 360$.</p>	