Hopewell Geometry		Rubric
	Points	Section points
1. Gives correct answer: **7.1** (accept 7 or $5\sqrt{2}$) Shows correct work such as: $\sqrt{(1^2 + 7^2)}$	1 2	3
2. Gives correct answer: **36.8º to 36.9º** Shows correct work such as: $\sin^{-1}\frac{3}{5}$ or $\cos^{-1}\frac{4}{5}$ or $\tan^{-1}\frac{3}{4}$	1 1	2
3. Gives correct answer: Triangle **A** Gives correct explanation such as: Triangle 1 is an enlargement of Triangle A by a scale factor of 3.	1 1	2
4. Gives correct answer: **No** **and** Gives a correct explanation such as finds the lengths of all three sides, ($\sqrt{225}$, $\sqrt{50}$, $\sqrt{245}$), and shows they don't satisfy the Pythagorean Rule. $245 \neq 225 + 50$. *Accept other methods including:* • Uses trigonometry to find the angles (71,6, 81.9, 25.5) • Triangle 3 is isosceles ∴ it has two 45° angles. Triangles 1 and 2 are not isosceles ∴ they do not have 45° angles. Angle in shaded triangle = 180° - 45° - non 45° angle ∴ ≠ 90° *Partial credit* Gives a partially correct explanation.	3 (1)	3
Total Points		**10**