Answer key for Mathematics 9-12 Cougar
Please note – written responses should be graded by the appropriate rubrics as found on the source page.

Read the article about the cougar at
http://www.bigcatrescue.org/cougar.htm

Cougars kill their prey by stalking it to within 30 feet and then pouncing upon it. If a cougar's prey is 90 feet away, and "R" represents the rate of speed a cougar can run, which of these equations can be used to represent this information? "T" = time to contact with prey.

- ➢ T= R (90-30)
- o T= (R x 30) – 90
- o T=(R x 90) – 30
- o T = R + (90 - 30)

Cougars swim well be prefer to avoid the water. To avoid swimming, this cougar has traveled around this lake following paths "B" and "C". If the distance "A" is 3 miles and "B" is 4 miles, what is the distance for "C"? Use the Pythagorean theorem to solve your problem

- o 2 miles
- o 3 miles
- o 4 miles
- ➢ 5 miles