

Math 120 A, B Winter 2012
Mid-Term Exam Number One
January 26, 2012
Answers

There were two versions of the exam used.

Version A

In version A, in problem 1, Molly starts from the point (3,4).

1. (a) $x = 3 - t, y = 4 - \frac{3}{4}t$ (b) $x = 12 - 0.47453t, y = 6 - 0.406745t$
2. (a) 5 (b) $6x + 3a - 9$
3. 0.985669 hours
4. 4.1250819 hours

Version B

In version B, in problem 1, Molly starts from the point (-1,7).

1. (a) $x = -1 + t, y = 7 - 2t$ (b) $x = -1.046228t, y = 22 - 6.626115t$
2. (a) 8 (b) $6x + 3a - 15$
3. 2.7967 hours
4. 3.163289 hours