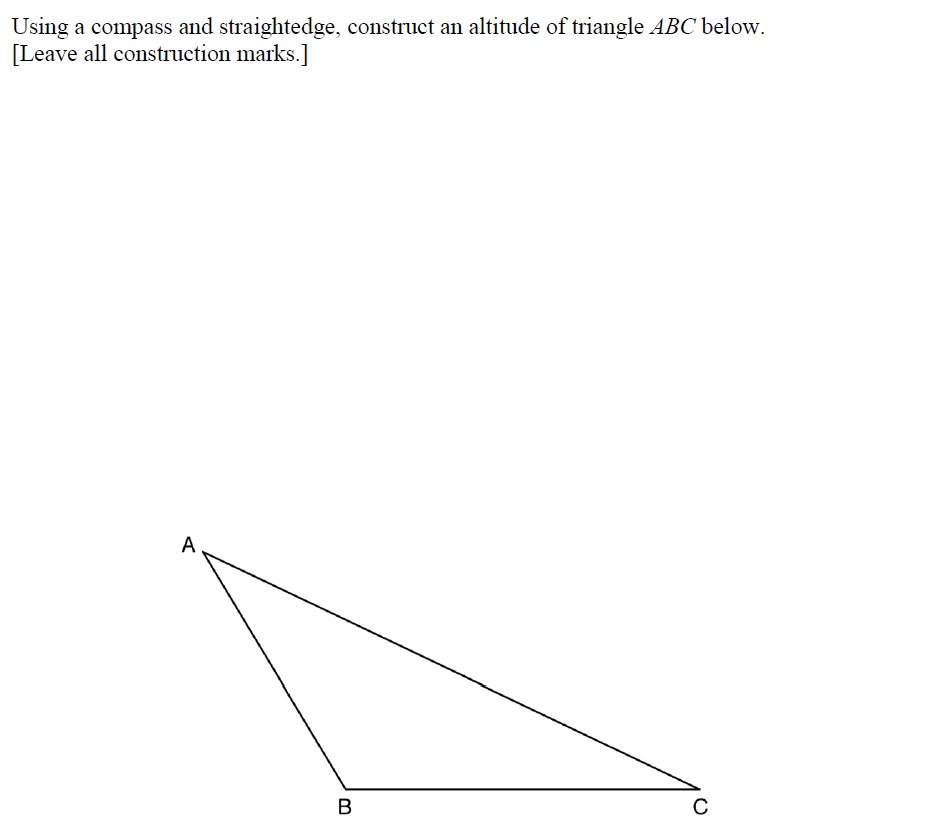
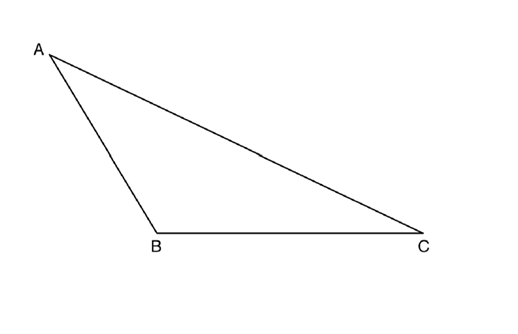
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Due: 5/7 This is worth 3 hw points!!

**Constructions Regents Review #1**

1.

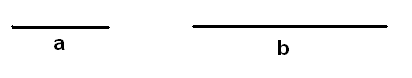


2. Using a compass and a straightedge, construct a median from vertex C.

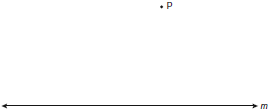


3. Given: Line segments a and b

Construct a line segment with length 2a + b



4. Using a compass and straightedge, construct a line that passes through point *P* and is perpendicular to line *m*. [Leave all construction marks.]



5. Which diagram shows the construction of a 45° angle?

|  |  |  |  |
| --- | --- | --- | --- |
| 1) |  | 3) |  |
| 2) |  | 4) |  |

6. Use a compass and straightedge to divide line segment *AB* below into four congruent parts. [Leave all construction marks.]



7. Using a compass, partition the line segment into a 2:3 ratio.



8. On the ray drawn below, using a compass and straightedge, construct an equilateral triangle with a vertex at *R*. The length of a side of the triangle must be equal to a length of the diagonal of rectangle *ABCD*.





9. Construct a line parallel to line segment AB.

**

10. Bisect angle B

