

Partial solutions for 3, 5, 7

3.  $m = 42k, \bar{x} = 2, \bar{y} = 85/28$

5.  $m = 6, \bar{x} = 3/4, \bar{y} = 3/2$

7.  $m = 8k/15, \bar{x} = 0, \bar{y} = 4/7$