

Practice (30 points)
Write slope-intercept form equations for each person in the system. Solve by making tables and graphs.

1) Roger and Emmett are on a climbing trail. Roger starts 1 meter below the Go mark and climbs at a rate of 2 meters per minute. Emmett starts 4 meters below the Go mark but climbs at a rate of 3 meters per minute. When will they be the same distance above the Go mark?

2) Sally and Sammy are saving for a trip to the nail salon where they want to get the mani-pedi that is on sale. Sally already has $\$ 5$ saved and plans to set aside $\$ 4$ per day. Sammy already has $\$ 15$ saved but she only plans to set aside $\$ 3$ per day. When will Sally \& Sammy have saved the same amount of money? (On your graph, go by 5 s.)

3) Andrew and Andrea are running. Andrew gets a 4-meter head start and runs at a rate of 2 meters per second. Andrea starts 4 meters behind the official starting point, but she runs at a rate of 3 meters per second. After how many seconds will Andrew and Andrea be at the same place? (On your graph, go by 2s.)

