$$\frac{30-0}{45-50} = \frac{30}{-5} = -6 \qquad y=mx+b \ (10,0)$$
$$m=-6 \qquad 0=50(-6)+b \quad b=300$$

Fill in the missing information for the chart.

$$\frac{50}{10}=5=m$$
$$\frac{0}{15}=0=m$$

Part of Graph	Equation	Domain
From A to B	$y=5x$	$[0,10]$
From B to C	$y=0x+50$	$[10,25]$
From C to D	$y=-6x+200$	$[25,30]$
From D to E	$y=\frac{2}{3}x$	$(30,45]$
From E to F	$y=-6x+300$	$[45,50]$

$$m=\frac{50-20}{25-30}=\frac{+30}{-5}=-6$$
$$y=mx+b \ (25,50)$$
$$50=-6(25)+b$$
$$50=-150+b$$
$$\underline{+150 \quad +150}$$
$$200=b$$

$$m=\frac{30-20}{45-30}=\frac{10}{15}$$
$$m=\frac{2}{3}$$
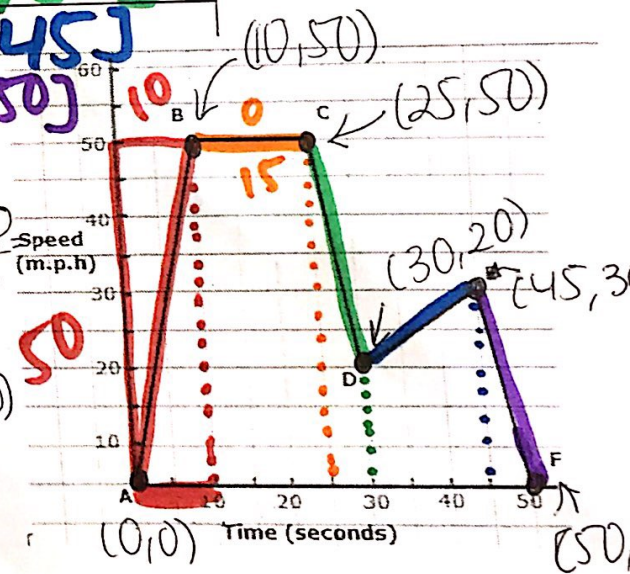$$y=mx+b \ (30,20)$$
$$20=30\left(\frac{2}{3}\right)+b$$
$$20=20+b$$
$$\underline{-20 \ -20} \qquad b=0$$

(10,50)
(25,50)
(30,20)
(45,30)
10, 0, 15, 50
Speed (m.p.h)
Time (seconds)
(0,0)
(50,

Graph (hand-drawn):

- Y-axis label: Distance (in miles) with markings: 32, 28, 24, 20, 16, 12, 8, 4
- X-axis label: Time (in minutes) with markings: 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110

Labeled segments and points:
- 15
- (15, 10)
- 10
- 20
- (45, 10)
- 18
- (65, 28)
- 3
- 45
- (110, 31)
- oops
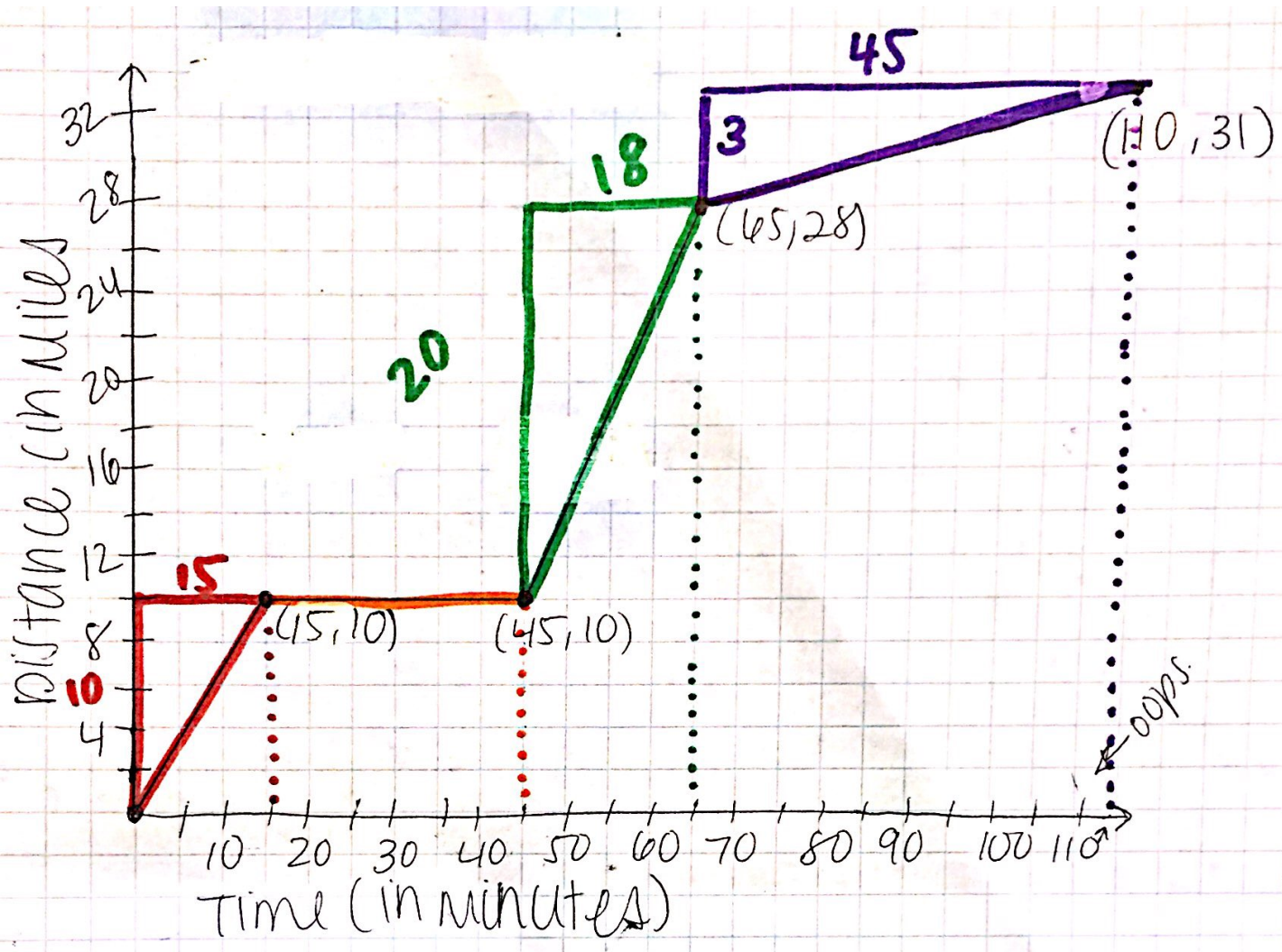
2. Ms. Brauer starts out for school at 5:30 AM and drives 10 miles in 15 min. She then stops for 30 minutes at Dunkin Donuts for a coffee. Afraid that she might be late for school, she continues driving a little faster for another 20 minutes and covers 18 miles at which point her car breaks down. From that point, she jogged the remaining 3 miles to school in 45 minutes.

Draw a graph with the distance on the vertical axis and time on the horizontal axis. (On a seperate sheet of paper)

Then fill out the table below: