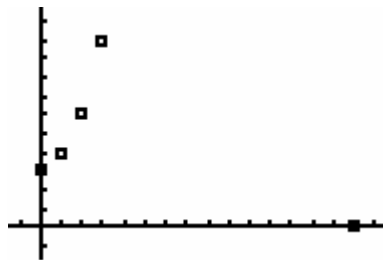


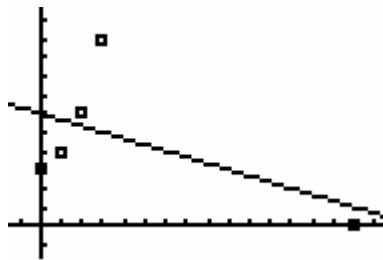
### Solutions to Test3C

1. d
2. b
3. c
4. c
5. b
6. a
7. c
8. e
9. c
10. d
11. a.

a. The most influential observation is the point (15,0)

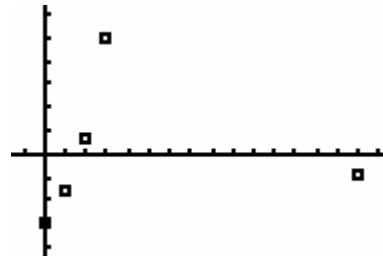


```
LinReg
y=a+bx
a=6.00928382
b=-.3355437666
r^2=.307581786
r=-.5546005644
```



```
Y1(L1)→L3
(6.00928382 5.6...
L2-L3→L4
(-3.00928382 -1...
sum(L4)
0
```

```
Plot2 Plot3
Off
Type: [ ] [ ] [ ]
Xlist: L1
Ylist: L4
Mark: [ ] +
```



- b. The least squares line has equation  $\hat{y}=6.01-0.3355x$  using point (0,6) and (15,0.98)
- c. A regression outlier is a point that has a large residual
- d. The point (3,10) has the largest residual.
- e. About 5
- f. Last screen above
- g. Because the residual plot does not show a random scatter about the  $y=0$  line, a line is not an appropriate model for these data.

12 a.  $b = 1.7714$

12 b. 83.54%

12 c. Moderately strong

12 d.  $\text{Height} = 91.457 + 1.7714 \text{ LegBoneLength}$

Extra Credit:  $\hat{y} = r \text{ times } x$ .