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Bài tập thực hành xstk Bài 3:

Bài 1:

```
> zsum.test(mean.x=98,n.x=9,sigma.x=2,conf.level=0.95)

        One-sample z-Test

data:  Summarized x
z = 147, p-value < 2.2e-16
alternative hypothesis: true mean is not equal to 0
95 percent confidence interval:
 96.69336 99.30664
sample estimates:
mean of x
       98
```

Bài 2:

```
> #bài 2: đề bài cho sigma,n, độ lệch tiêu chuẩn, độ tin cậy
> zsum.test(mean.x=780,n.x=30,sigma.x=40,conf.level=0.95)

        One-sample z-Test

data:  Summarized x
z = 106.81, p-value < 2.2e-16
alternative hypothesis: true mean is not equal to 0
95 percent confidence interval:
 765.6864 794.3136
sample estimates:
mean of x
      780
```

Bài 3:

```
> #Bai 3:
> quangduong<-c(15.5,27.3,11.4,19.6,9.3,22.8,32.6)
> #de bai cho mau quan sat, khong cho sigma:
> t.test(quangduong,conf.level=0.95)

        One Sample t-test

data:  quangduong
t = 6.1949, df = 6, p-value = 0.000815
alternative hypothesis: true mean is not equal to 0
95 percent confidence interval:
 11.97064 27.60078
sample estimates:
mean of x
 19.78571
```

Bài 4:

```
> #bai 4:
> haophi<-c(rep(30,5),rep(32,9),rep(34,12),rep(36,6),rep(38,4))
> haophi
 [1] 30 30 30 30 30 32 32 32 32 32 32 32 32 32 34 34 34 34 34 34 34 34 34 34 34
[26] 34 36 36 36 36 36 38 38 38 38
> #đề bài cho biết mẫu quan sát không cho sigma:
> t.test(haophi,conf.level=0.95)

        One Sample t-test

data:  haophi
t = 84.385, df = 35, p-value < 2.2e-16
alternative hypothesis: true mean is not equal to 0
95 percent confidence interval:
 32.91094 34.53350
sample estimates:
mean of x
 33.72222

>
```

Bài 5:

```
> bài 5: biết n,mean,sigma,độ tin cậy
Error: unexpected numeric constant in "bài 5"
> zsum.test(mean.x=24800,n.x=31,sigma.x=650,conf.level=0.95)

        One-sample z-Test

data:  Summarized x
z = 212.43, p-value < 2.2e-16
alternative hypothesis: true mean is not equal to 0
95 percent confidence interval:
 24571.19 25028.81
sample estimates:
mean of x
    24800
```

Bài 6:

```
> # bai 6:
> prop.test(x=360,n=400,conf.level=0.95,correct=F)

        1-sample proportions test without continuity correction

data:  360 out of 400, null probability 0.5
X-squared = 256, df = 1, p-value < 2.2e-16
alternative hypothesis: true p is not equal to 0.5
95 percent confidence interval:
 0.8666894 0.9257007
sample estimates:
  p
0.9

> |
```