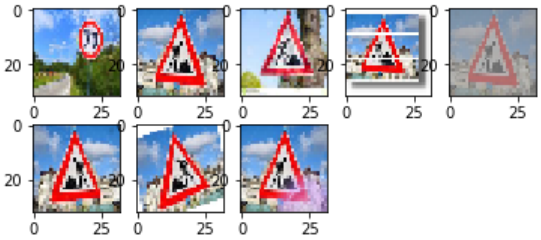
7. Acquiring New Images version 2

In addtion to previous external German traffic signs, adding the same sign that predicted correctly earlier with addtional changes, we discover that :

1. It is difficult for classifier to recognized a sign with graffiti on it (two tapes across the image)
2. It failed to recognize the image when the sign is rotate around 30 degree. Human can still recognize it.
3. Human can recognize the mirror image of the sign but the classifier couldnot
4. Predicted that it will also fail on different level of brightness, contrast, glares... with many experiment, this classifier handle these situations very well

In [1]:
```
from lib_traffic_sign_classifier import *
%matplotlib inline
import tensorflow as tf
```

In [2]:
```
ext_image_list1 = []
ext_image_list1 = build_external_traffic_sign (ext_image_list1)
```



In [3]:
```
trained_model_file = "./LenetTrafficSign_Lenet2_8" #saver.restore(sess,tf.train.latest_checkpoint('./'))
perform_prediction (trained_model_file, ext_image_list1)
```

```
expected/predicted class: 4/35
expected/predicted class: 25/25
expected/predicted class: 25/25
expected/predicted class: 25/11
expected/predicted class: 25/25
expected/predicted class: 25/1
expected/predicted class: 25/18
expected/predicted class: 25/25
correct: 4
```